



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 194764

TO: Fred Ehichoya  
Location: RND 3B31  
Art Unit: 2162  
Thursday, July 06, 2006

Case Serial Number: 10/756874

From: Carol Wong  
Location: EIC 2100  
RND-4B28  
Phone: 571-272-3513

Carol.Wong@uspto.gov

### Search Notes

Fred:

Attached are the search results for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Color of tag has no significance. Pls review all documents, since untagged items might also be of interest.

Pls call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks, Carol

[File 348] EUROPEAN PATENTS 1978-2006/ 200627

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\*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

[File 349] PCT FULLTEXT 1979-2006/UB=20060629,UT=20060622

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\*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

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; d s
Set      Items      Description
S1       1355317     REFERENCE OR REFERENCES FROM 348, 349
S2       1515817     PRESET OR PREDETERMINED OR SET OR PRESCRIBED OR FIXED OR GIVEN OR
ESTABLISHED OR PRECONFIGURED OR PREESTABLISHED OR PRESTABLISHED FROM 348, 349
S3       1256363     PRESTATED OR DETERMINED OR PREDEFINED OR STATED OR DEFINED OR
PRESTIPULATED OR PREORDAINED OR PREARRANGED OR PREDECIDED FROM 348, 349
S4       1004967     PRESELECTED OR SPECIFIC OR SPECIFIED OR PRESPECIFIED OR PROGRAMED OR
PROGRAMMED FROM 348, 349
S5       17182       PRE()(CONFIGURED OR STIPULATED OR ORDAINED OR DECIDED OR SELECTED OR
ARRANGED) FROM 348, 349
S6       65611       S2:S5(1w)S1 FROM 348, 349
S7       1333656     REFERENCE OR REFERENCED FROM 348, 349
S8       433136      (S7 OR S2:S5)(1w)(VALUE? ? OR LIMIT? ? OR AMOUNT? ? OR QUANTITY? OR
QUANTITIES OR LEVEL? ? OR PROFILE? ? OR POINT? ? OR CONDITION? ?) FROM 348, 349
S9       80525       (S7 OR S2:S5)(1w)(STATE OR STATES OR FACTOR OR FACTORS OR COUNT? ? OR
LIMIT? ? OR INDICIA? ? OR INDICIE? ? OR INDICE? ? OR INDEX?? ?) FROM 348, 349
S10      199448      (S7 OR S2:S5)(1w)(PATTERN? ? OR PARAMET? OR BOUND? ? OR RANGE? ? OR
CRITERIA? OR CRITERION? OR NORM? ? OR MODEL? ? OR RULE? ? OR FORMULA? ?) FROM 348, 349
S11      801739      TARGET? ? OR STANDARD? ? OR BASELINE? OR BASE()LINE? ? OR THRESHOLD? ? OR
YARDSTICK? OR YARD()STICK? ? OR BENCHMARK? OR BENCH()MARK? ? FROM 348, 349
S12      162642      OPERATI????? ?(1w)(CONDITION? ? OR STATE? ? OR STATUS? OR SITUATION? OR
POSITION? OR MODE OR MODES OR STAGE? ?) FROM 348, 349
S13      1074132     LOAD OR WORKLOAD OR VOLUME OR USAGE OR REQUESTS OR USERS OR ACTIVITY OR
TRAFFIC OR TRANSACTIONS OR DEMAND FROM 348, 349
S14      65113       DB OR DBS FROM 348, 349
S15      122798      DATABASE? OR DATASET? ? OR DATABANK? OR DATASTORE? OR DATAFILE? OR
DATASYSTEM? OR DATALIBRAR? OR DATAMART? FROM 348, 349
S16      175954      DATA()(BASE? ? OR SET? ? OR BANK? ? OR STORE? ? OR FILE? ? OR SYSTEM? ? OR
LIBRAR??? ? OR MART? ?) FROM 348, 349
S17      5571        DBMS OR RDB? ? OR VLDB? ? OR LDB? ? OR ODBC? ? OR OODB? ? OR RDBM? ? OR
OODM? ? OR ODBM? ? FROM 348, 349
S18      117028      FILE OR FILES FROM 348, 349
S19      102859      RESOURCE OR RESOURCES FROM 348, 349
S20      35183       S14:S19(3N)(ADD? ? OR ADDED OR ADDING OR SUPPLEMENT? OR ADDITIONAL OR
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S21      15871       S14:S19(3N)(COPY? OR COPIES OR COPIED OR REPLICA? OR DUPLICAT? OR MIRROR?
OR REPRODUC????? ? OR SHADOW? OR MIRROR? OR BACKUP?) FROM 348, 349
S22      2207        S14:S19(3N)(BACK()UP? ? OR CLON???? ? OR RE()PRODUC???? ?) FROM 348, 349
S23      961459      COMPARISON? OR COMPAR??? ? OR COMPARAT?R? ? OR MATCH???? ? OR MISMATCH? OR
NONCOINCIDEN? OR INCONSISTEN? OR DISAGREE? OR DISCORD? FROM 348, 349
S24      1716        NONCORRESPOND? OR (NON OR UN)()(COINCIDEN? OR CONSISTEN? OR CORRESPONDEN?)
FROM 348, 349
S25      2338        S S23:S24(5N)S12
S26      225         S S25(5N)(S6 OR S8:S11)
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S27 1 S S26(50N)S20:S22  
S28 60345 S S23:S24(5N)S13  
S29 4603 S S28(5N)(S6 OR S8:S11)  
S30 11 S S29(50N)S20:S22  
S31 7330 S (NUMBER OR QUANTITY)(1W)S14:S19 OR (NUMBER OR QUANTITY)(2W)S20:S22  
S32 93467 S S12:S13(7N)(S6 OR S8:S11)  
S33 78 S S31(50N)S32  
S34 41 S S31(25N)S32  
S35 12 S S27 OR S30  
S36 10 S S35 AND AC=US/PR AND AY=(1963:2003)/PR  
S37 10 S S35 AND AC=US AND AY=1963:2003  
S38 10 S S35 AND AC=US AND AY=(1963:2003)/PR  
S39 10 S S35 AND PY=1963:2003  
S40 12 S S36:S39  
S41 39 S S34 NOT S40  
S42 27 S S41 AND AC=US/PR AND AY=(1963:2003)/PR  
S43 27 S S41 AND AC=US AND AY=1963:2003  
S44 27 S S41 AND AC=US AND AY=(1963:2003)/PR  
S45 29 S S41 AND PY=1963:2003  
S46 102859 S RESOURCE OR RESOURCES  
S47 16593 S S46(5N)(REALLOCAT? OR ALLOCAT? OR DEALLOCAT? OR APPORTION? OR  
DISTRIBUT???? ? OR ALLOT???? ? OR ASSIGN???? ?)  
S48 257 S S32(25N)S47  
S49 443 S S47(5N)(SMART? OR INTELLIGENT? OR AUTOMATIC???? ? OR AUTONOM???? ? OR  
SELFMANAG? OR SELFFACT? OR SELFDRIV? OR SELFOPERAT?)  
S50 1 S S47(5N)(SELFREGULAT? OR SELFGOVERN? OR SELFCONTROL? OR SELFDIRECT? OR  
SELFADJUST? OR SELFADAPT? OR SELFMODULAT? OR SELFMONITOR?)  
S51 4412 S S46(5N)(INTUITI? OR TRANSPAREN? OR INDEPENDEN? OR DYNAMIC? OR INSTANT?)  
S52 12 S S46(5N)SELF()(MANAG??? ? OR MANAGEMENT OR ACT??? ? OR DRIV??? ? OR  
OPERAT???? ? OR REGULAT???? ? OR GOVERN???? ? OR CONTROL???? ?)  
S53 11 S S46(5N)SELF()(DIRECT???? ? OR ADJUST???? ? OR ADAPT???? ? OR  
MODULAT???? ? OR MONITOR???? ?)  
S54 0 S S47(5N)(SELFMANAG? OR SELFFACT? OR SELFDRIV? OR SELFOPERAT?)  
S55 9 S S32(25N)S49  
S56 35 S S32(25N)S51  
S57 66 S S50 OR S52:S56  
S58 66 S S57 NOT (S35 OR S34)  
S59 46 S S58 AND AC=US/PR AND AY=(1963:2003)/PR  
S60 46 S S58 AND AC=US AND AY=1963:2003  
S61 46 S S58 AND AC=US AND AY=(1963:2003)/PR  
S62 49 S S58 AND PY=1963:2003  
S63 58 S S59:S62

? t 45/5,k/8,12,22-23

45/5,K/8 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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01043341 \*\*Image available\*\*

SCALABLE DATABASE MANAGEMENT SYSTEM

SYSTEME DE GESTION DE BASE DE DONNEES EVOLUTIVE

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200373330 A1 20030904 (WO 0373330)

Application: WO 2003US5516 20030220 (PCT/WO US0305516)

Priority Application: US 200281525 20020221

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10938

English Abstract

A database management system (130) provides request handler modules (110a-110c) through which users interface. A master control module (120) assigns database servers to databases. A request handler module (110a-110c) receives a database request from a client (150a-150c) and sends a database identifier to the master control module, (120) which determines an assigned database server and returns its location to the request handler module (110a-110c). The request handler module (110a-110c) then sends the database request to the assigned database

server, which handles the database request. The database management system (130) facilitates the addition of database servers without requiring substantial system reconfiguration.

#### French Abstract

L'invention concerne un systeme de gestion de base de donnees (130) comportant des modules de traitement de demande (110a a 110c) par le biais desquels des utilisateurs interfacent. Un module de commande principale (120) alloue des serveurs de base de donnees a des bases de donnees. Un module de traitement (110a a 110c) recoit une demande de base de donnees emanant d'un client (150a a 150c) et envoie un identificateur de base de donnees a un module de commande principale (120), qui determine un serveur de base de donnees alloue et retourne sa localisation au module de traitement de demande (110 a 110c). Le module de traitement de donnees (110a a 110c) envoie ensuite la demande de base de donnees au serveur de base de donnees alloue, qui traite la demande de base de donnees. Ledit systeme de gestion de base de donnees (130) facilite l'adjonction de serveurs de bases de donnees sans requerir de reconfiguration substantielle du systeme.

#### Legal Status (Type, Date, Text)

Publication 20030904 A1 With international search report.

#### Patent and Priority Information (Country, Number, Date):

Patent: ...20030904

#### Fulltext Availability:

Detailed Description

Publication Year: 2003

#### Detailed Description

... times that a particular region has accessed a database identified by its DBID.

When the number of database accesses/actions reaches a threshold, an usage analysis is triggered. If usage is disproportionately found in a particular unassigned region, then the database is re-assigned to...

45/5,K/12 (Item 5 from file: 349) [Links](#)

PCT FULLTEXT

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00957005 \*\*Image available\*\*

INTELLIGENT INTERNET WEBSITE WITH HIERARCHICAL MENU

SITE WEB INTERNET INTELLIGENT A MENU HIERARCHIQUE

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200291154 A2-A3 20021114 (WO 0291154)

Application: WO 2002IE59 20020502 (PCT/WO IE02000059)

Priority Application: IE 2001455 20010510

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-003/033

International Patent Class (v7): G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10083

English Abstract

An internet website which presents a hierarchical menu structure to users includes a personalisation engine 14 to automatically modify the menu structure for each user at least according to that user's previous browsing history at the site. In one embodiment the engine 14 provides, as menu options for a selected menu page of the hierarchical menu, a plurality of the most probable links which the user may wish to reach from the selected menu page. In another embodiment there are provided, as additional menu options for a particular menu page, a plurality of links which are similar, as determined by meeting a predetermined similarity metric, to menu options present on the particular menu page other than through meeting the similarity metric.

French Abstract

L'invention concerne un site web internet presentant une structure de menu hierarchique aux utilisateurs, et comprenant un moteur (14) de personnalisation destine a modifier automatiquement la structure du menu pour chaque utilisateur au moins en fonction de l'historique d'exploration prealable de l'utilisateur sur ce site. Dans un mode de realisation, le moteur (14) fournit, en tant qu'options de menu pour une

page de menu selectionnee du menu hierarchique, une pluralite de liens qu'il est plus probable que l'utilisateur souhaite atteindre a partir de la page de menu selectionnee. Un autre mode de realisation comprend, en tant qu'options de menu supplementaires pour une page de menu particuliere, une pluralite de liens semblables, par conformite a une mesure de similarite predeterminee, aux options de menu presentes sur la page de menu particuliere autrement que par conformite a la mesure de similarite.

Legal Status (Type, Date, Text)

Publication 20021114 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20030327 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20040304 Late publication of international search report  
Republication 20040304 A3 With international search report.

Patent and Priority Information (Country, Number, Date):

Patent: ...20021114  
Fulltext Availability:  
Detailed Description  
Publication Year: 2002

Detailed Description

... s profile is deemed  
useful in computing the affinity values for this menu option.

User threshold - if the number of users added to the file associated with the menu option exceed the user threshold stop adding users to the file. These files may be removed altogether so they don't take part...

45/5,K/22 (Item 15 from file: 349) Links

PCT FULLTEXT

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00748779 \*\*Image available\*\*

A METHOD AND SYSTEM FOR PROVIDING DATA TO A USER BASED ON A USER'S QUERY  
METHODE ET SYSTEME PERMETTANT DE FOURNIR DES DONNEES A UN UTILISATEUR EN  
FONCTION D'UNE INTERROGATION D'UTILISATEUR

Patent Applicant/Assignee:

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BELITSKI Evgueni, 146 92nd Street, Apartment D5, Brooklyn, NY 11209, US

Legal Representative:

MCCABE Philip J, Kenyon & Kenyon, One Broadway, New York, NY 10004,  
US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200062200 A1 20001019 (WO 0062200)  
Application: WO 2000US8933 20000404 (PCT/WO US0008933)  
Priority Application: US 99290121 19990412

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8644

English Abstract

A method and system is described for notifying users of an arrival of a document. A respective query is received from each respective user (10). Each respective query includes at least one query term and at least one query condition. For each respective query, each one of the at least one query term is stored (2') in a database only if the one query term is unique with respect to other query terms stored in the database. The document, which includes a document term being associated with the document, is received. The document term is compared with the stored query terms (20). For each respective query, a determination is made whether all of the at least one query condition of the respective query is satisfied as a function of the comparatione between the document term(s) and the stored query terms. For each respected query, if all of the at least one query condition of the respective query is satisfied, the respective user is notified (25) of the arrival of the document.

French Abstract

Cette invention a trait a une methode et a un systeme permettant d'avertir des utilisateurs de l'arrivee d'un document. Une interrogation respective est recue emanant d'un utilisateur respectif (10). Chacune de ces interrogations renferme au moins un terme d'interrogation et une condition d'interrogation. Concernant chaque interrogation, chaque terme d'interrogation, un a tout le moins, est stocke (2') dans une base de donnees, mais cela seulement si le terme d'interrogation est unique relativement aux autres termes d'interrogation stockes dans la base de donnees. Le document, renfermant un terme de document associe, est recu. Le terme du document est compare aux termes de l'interrogation stockes (20). Il est determine, pour chaque interrogation respective, si la totalite de la condition d'interrogation, une a tout le moins, est remplie et ce, en fonction de la comparaison etablie entre le ou les termes du document et les termes de l'interrogation stockes. Si tel est



le cas, l'utilisateur respectif est avise de l'arrivee du document.

Legal Status (Type, Date, Text)

Publication 20001019 A1 With international search report.

Examination 20010125 Request for preliminary examination prior to end of  
19th month from priority date

Patent and Priority Information (Country, Number, Date):

Patent: ...20001019

Fulltext Availability:

Detailed Description

Publication Year: 2000

Detailed Description

... time) load of the system 111.

Similarly, the system 111 may delete or adjust a number of database sets if the load of the particular database set is less than a further predetermined threshold load. For example, if the database set A has 1,000 queries, the database set B...

45/5,K/23 (Item 16 from file: 349) Links

PCT FULLTEXT

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00536358 \*\*Image available\*\*

HYSTERESIS SYSTEM AND METHOD FOR LIMITING A MEAN COST PER ACTION OF A SET  
OF ACTIONS IN A COMPUTER SYSTEM

SYSTEME ET PROCEDURE D'HYSTERESIS SERVANT A LIMITER UN COUT MOYEN PAR ACTION  
D'UN ENSEMBLE D'ACTIONS DANS UN SYSTEME INFORMATIQUE

Patent Applicant/Assignee:

MICROSOFT CORPORATION,

Inventor(s):

DOUCEUR John R,

BERNET Yoram,

BAR Ofer,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9967710 A1 19991229

Application: WO 99US14047 19990623 (PCT/WO US9914047)

Priority Application: US 98103334 19980623

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH  
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN  
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW  
GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE  
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR  
NE SN TD TG

Main International Patent Class (v7): G06F-009/46

International Patent Class (v7): G06F-012/02

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 15393

#### English Abstract

The present invention is embodied in a system and method for generating and validating reference handles for consumers requiring access to resources in a computer system. The system of the present invention includes a resource manager (200) having a handle administrator (230), a plurality of consumers (212-216), and a plurality of resources (218-222). The handle administrator includes an assignment routine (310), a release routine (314), and a dereference routine (312). The assignment routine (310) issues new handles, the release routine (314) releases handles that are no longer required (thus rendering the handle invalid), and the dereference routine (312) dereferences handles into a pointer to a resource, which entails verifying that the handle is valid. Also included is an auxiliary sub-routine (402) for managing used and unused records, an expansion sub-routine (404) for efficiently expanding the handle database, a handle recycling sub-routine (406) for recycling handles, a contraction sub-routine (434) for efficiently contracting the handle database, a hysteresis sub-routine (436) for probabilistically contracting the handle database, and a memory allocation failure sub-routine (414) to improve functionality in the event of memory allocation failure.

#### French Abstract

L'invention concerne un systeme et un procede servant a generer et a valider des pointeurs de reference pour des consommateurs desirant acceder a des ressources dans un systeme informatique. Ce systeme comprend un gestionnaire de ressources (200) possedant un administrateur de pointeurs (230), une pluralite de consommateurs (212-216) et une pluralite de ressources (218-222). L'administrateur de pointeurs comprend un programme d'affectation (310), un programme de degagement (314) et un programme de dereference (312). Le programme d'affectation (310) emit de nouveaux pointeurs, le programme de degagement (314) libere des pointeurs qui ne sont plus necessaires (ce qui rend le pointeur invalide) et le programme de dereference (312) dereference les pointeurs en un pointeur de ressource, ce qui consiste a verifier que le pointeur est valide. Ce systeme comporte egalement un sous-programme auxiliaire (402) servant a gerer les enregistrements utilises et non utilises, un sous-programme d'expansion (404) servant a effectuer efficacement l'expansion de la base de donnees de pointeurs, un sous-programme de recyclage (406) de pointeurs servant a recycler les pointeurs, un sous-programme de contraction (434) servant a contracter efficacement la base de donnees de pointeurs, un sous-programme d'hysteresis (436) servant a contracter de facon probabiliste la base de donnees de pointeurs et un sous-programme d'echec (414) d'affectation de memoire servant a ameliorer la fonctionnalite en cas d'un echec d'affectation de memoire.

Patent and Priority Information (Country, Number, Date):

Patent: ...19991229  
Fulltext Availability:  
Claims  
Publication Year: 1999

Claim

... obtaining the second  
condition when the count of unused records in the database exceeds a  
usage threshold (920).

8 The method of claim 7, wherein increasing the computational debt  
when the database is expanded includes increasing the computational debt  
by the number of records added to the database (1 1 18).

9 The method of claim 7, wherein increasing the computational debt  
when...

? t 45/5,k/26,29

45/5,K/26 (Item 19 from file: 349) [Links](#)

PCT FULLTEXT

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00456834 \*\*Image available\*\*

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR SWITCHED TELEPHONY  
COMMUNICATION

SYSTEME PROCEDE ET ARTICLE CONCU POUR LES COMMUNICATIONS TELEPHONIQUES PAR  
RESEAU COMMUTE

Patent Applicant/Assignee:

MCI WORLDCOM INC,

Inventor(s):

ZEY David A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9847298 A2 19981022

Application: WO 98US7927 19980415 (PCT/WO US9807927)

Priority Application: US 97835789 19970415; US 97834320 19970415

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW  
SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR  
IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class (v7): H04M-003/42

International Patent Class (v7): H04M-007/00; H04Q-003/00; H04M-003/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 156638

#### English Abstract

A hybrid telecommunication system includes a switched network which transfers information across the Internet to provide multi-routed and multidimensional callback processing. The hybrid network includes one or more switched networks coupled to one or more packet transmission networks, and a call router coupled to the switched communication network and the packet transmission network to route information to the appropriate switched telephony device or Internet device address. A computer with an attached display communicates with the packet transmission network. The computer is used to initiate remote management of the hybrid network, including tests of the hybrid network. The tests include circuit analysis such as selecting signaling states which could be loop start, ground start, or detecting signals such as dual tone multifrequency, multifrequency or dialpulse. The hybrid network includes support for an operator to monitor the management of the hybrid network, and an expert system to regulate the Quality of Service of the hybrid telecommunication system.

#### French Abstract

La presente invention se rapporte a un systeme de telecommunications hybride comprenant un reseau commute qui transmet les informations via Internet pour permettre un traitement de rappel multidimensionnel a acheminements multiples. Ce systeme hybride comprend un ou plusieurs reseaux commutes couples a un ou a plusieurs reseaux de transmission par paquets, un dispositif d'acheminement d'appels couple au reseau commute, et un reseau de paquets acheminant les informations a l'adresse du dispositif telephonique commute ou du dispositif Internet. Un ordinateur equipe d'un afficheur communique avec le reseau de paquets. L'ordinateur assure le declenchement de la telegestion du reseau hybride ainsi que des tests du reseau hybride. Ces tests comprennent l'analyse du circuit et notamment la selection des etats de signalisation ainsi que le demarrage sur court-circuit ou sur prise de terre, mais aussi la detection de signaux tels que les multifrequences bi-tons, les multifrequences ou les impulsions. Le reseau hybride assure une assistance operateur permettant de surveiller la gestion du reseau hybride, un systeme expert assurant le controle qualite de service (QOF) du systeme de telecommunications hybride.

#### Patent and Priority Information (Country, Number, Date):

Patent: ...19981022

#### Fulltext Availability:

Detailed Description

Publication Year: 1998

#### Detailed Description

... rules that governs the actions taken on resource allocation and de-allocation, resource pool size thresholds and resource utilization thresholds.

#### 40 (2) Concepts

The Resource Management Model is a mechanism which governs and allows a set of functions to request, acquire and release resources to/from a resource pool through well-defined procedures

and policies. The resource allocation and...

45/5,K/29 (Item 22 from file: 349) Links

PCT FULLTEXT

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00123598

CONTROLLABLE RISK PARAMETER FOR DEVICE CONTROL SYSTEM

PARAMETRE DE RISQUE REGLABLE POUR UN SYSTEME DE REGULATION DE DISPOSITIF

Patent Applicant/Assignee:

AMERICAN TELEPHONE & TELEGRAPH COMPANY,

Inventor(s):

BREDDAN Joseph Abraham,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8501851 A1 19850425

Application: WO 84US1570 19841002 (PCT/WO US8401570)

Priority Application: US 83814 19831007

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE FR GB JP LU NL SE

Main International Patent Class (v7): H04M-011/00

International Patent Class (v7): H02J-03:14; G01R-19:30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6163

English Abstract

The device control system provides a new method of determining when resource consuming loads (L1-Lk) are to be disabled to prevent the total resource consumption from exceeding a predetermined threshold. This system bases the decision making process on a costumer controllable risk parameter (103), past consumption, past load shedding activity and predicted future load activity. The controlling algorithm is applied to the present resource consuming situation for a plurality of different time interval configurations and the worst case result of these computations is used to control the load shedding.

French Abstract

Ce systeme de regulation de dispositif offre un nouveau procede pour determiner si des charges consommant des ressources (L1-Lk) doivent etre mises hors service pour empecher la consommation totale de ressources de depasser un seuil predetermine. Ce systeme base le procede de prise de decision sur un parametre de risque reglable par le client (103), la consommation passee, l'activite de delestage passee et l'activite de charge future predite. L'algorithme de regulation est applique a la situation de consommation de ressources actuelles pour une pluralite de differents intervalles de temps et l'on utilise le pire cas resultant de ces calculs pour reguler le delestage.

Patent and Priority Information (Country, Number, Date):

Patent: ...19850425

Fulltext Availability:

Detailed Description

Publication Year: 1985

Detailed Description

... which are

connected to and controlled by said device control system, to maintain the overall demand for the resource below a predetermined demand threshold. In particular the method monitors the operation of a number of resource consuming devices, predicts their future activity and regulates their operation based on past consumption and...

?

; t 63/5,k/4-6,9,11-12,14,16-17,21

63/5,K/4 (Item 4 from file: 348) Links

EUROPEAN PATENTS

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01456004

System and method for visual representation of tabs in a production printing workflow

System und Verfahren zur visuellen Darstellung von Kartereitern in einem Druckarbeitsablauf

Systeme et procede pour la representation visuelle d'anglets dans un flux d'impression de masse

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (1782912), 343 State Street, Rochester, New York 14650, (US), (Applicant designated States: all)

INVENTOR:

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Roztocil, Tomas, 518 Leicester Street, Caledonia, NY 14425, (US)

Savino, Ronald F., 58 Wood Run Commons, Rochester, NY 14612, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent Department, W92-3A, Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 1246051 A2 021002 (Basic)

EP 1246051 A3 060607

APPLICATION (CC, No, Date): EP 2002003201 020219;

PRIORITY (CC, No, Date): US 803166 010309

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-003/12

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06F-0003/12 A I F B 20060101 20020812 H EP

ABSTRACT EP 1246051 A3

A system and method for managing production printing workflow (100) is disclosed. The system includes workflow management software which manages and facilitates the procedural stages of the workflow (100) including job origination (102), job submission (104), job preparation (106) and job fulfillment (108). The workflow management software provides an integrated object oriented interface which visually reflects and interacts with the workflow (100). The software further provides functionality for efficient page level modifications to documents at the job preparation stage. This functionality allows such modifications to be easily made to selected pages and visually verified by displaying visual representations of the modifications on visual representations of the pages. In particular, the insertion and attributes of ordered media, such as tab separator pages, is visually represented. This allows an operator to visually verify ordered media ordering and placement and coordinate with the production output device to properly insert and efficiently utilize the ordered media.

ABSTRACT WORD COUNT: 153

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 021002 A2 Published application without search report  
Assignee: 040908 A2 Transfer of rights to new applicant: Eastman  
Kodak Company (1782912) 343 State Street  
Rochester, New York 14650 US  
Change: 040929 A2 Legal representative(s) changed 20040812  
Assignee: 040908 A2 Transfer of rights to new applicant: Eastman  
Kodak Company (1782912) 343 State Street  
Rochester, New York 14650 US  
Change: 040929 A2 Legal representative(s) changed 20040812

Search Report: 060607 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200240	1825
SPEC A	(English)	200240	14644
Total word count - document A			16472
Total word count - document B			0
Total word count - documents A + B			16472

...SPECIFICATION print resources in the shop or there is too big a queue for the particular resource, the resource allocator can make a determination, either automatically or with manual operator intervention, of how best to print that particular page. Further, the resource allocator can include "policies" or pre-defined rules for handling particular capability "requests". A policy can be implemented to force the whole document to print on a particular...

63/5,K/5 (Item 5 from file: 348) Links

EUROPEAN PATENTS

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01444798

Method of measuring traffic volume in mobile communication system

Verfahren zur Messung der Verkehrsmenge in einem mobilen Kommunikationssystem

Procede pour mesuer le volume du trafic dans un systeme de communications mobiles

PATENT ASSIGNEE:

LG ELECTRONICS INC., (1914270), 20, Yoido-Dong, Youngdungpo-Gu, Seoul, (KR), (Applicant designated States: all)

INVENTOR:

Yi, Seung, June, Daechong Apt., 303-403, Kaepo-dong, Kangnam-gu, Seoul, (KR)

Park, Jin, Young, Mukunghwa Hwasung Apt., 124-1802, Kumiong-dong, Kunpo-shi, Kyonggi-do, (KR)

LEGAL REPRESENTATIVE:

TER MEER STEINMEISTER & PARTNER GbR (100061), Patentanwalte,



Mauerkircherstrasse 45, 81679 Munchen, (DE)  
PATENT (CC, No, Kind, Date): EP 1233582 A2 020821 (Basic)  
EP 1233582 A3 040225  
APPLICATION (CC, No, Date): EP 2002003734 020219;  
PRIORITY (CC, No, Date): KR 201008526 010220  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS (V7): H04L-012/56; H04L-012/26; H04B-007/26

ABSTRACT EP 1233582 A2

A method for measuring the traffic volume of a transport channel in a mobile communication system is disclosed, including receiving a buffer occupancy for each of a set of logical channels mapped to a transport channel, measuring a traffic volume of the transport channel based on the received buffer occupancies, and reporting the measured traffic volume of the transport channel to an upper layer. The measured traffic volume may be reported to the upper layer when the volume is out of a given range or a timer set to a given period has expired. Using this method, a radio resource control layer can perform a dynamic radio bearer reconfiguration using the measurement results received from a medium access control layer of the communication system.

ABSTRACT WORD COUNT: 125

NOTE:

Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020821 A2 Published application without search report  
Change: 040211 A2 International Patent Classification changed:  
20031223

Search Report: 040225 A3 Separate publication of the search report

Examination: 040512 A2 Date of request for examination: 20040311

Examination: 040922 A2 Date of dispatch of the first examination  
report: 20040810

Examination: 040922 A2 Date of dispatch of the first examination  
report: 20040810

Extended: 041117 A2 Extended states: AL; LT; LV; MK; RO; SI

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200234	1255
SPEC A	(English)	200234	3056
Total word count - document A			4311
Total word count - document B			0
Total word count - documents A + B			4311

...ABSTRACT upper layer. The measured traffic volume may be reported to the upper layer when the volume is out of a given range or a timer set to a given period has expired. Using this method, a radio resource control layer can perform a dynamic radio bearer reconfiguration using the measurement results received from a medium access control layer of...

63/5,K/6 (Item 6 from file: 348) Links

EUROPEAN PATENTS

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01438725

Access control unit

Zugriffssteuereinheit

Unite de commande d'accès

PATENT ASSIGNEE:

ALCATEL, (201871), 54, rue la Boetie, 75008 Paris, (FR), (Applicant  
designated States: all)

INVENTOR:

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Kopf, Andreas, Steigstrasse 34, 70565 Stuttgart, (DE)

Seibold, Wolfram, Muhlstrasse 11, 73630 Remshalden, (DE)

LEGAL REPRESENTATIVE:

Menziatti, Domenico, Dipl.-Ing et al (87741), Alcatel Intellectual

Property Department, Stuttgart, 70430 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 1225785 A1 020724 (Basic)

APPLICATION (CC, No, Date): EP 2000440288 001027;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04Q-011/04

ABSTRACT EP 1225785 A1

An access control unit to interface one ATM core network and at least one bidirectional access network is provided, which includes means to perform ATM signalling and resource management to provide dynamically adjustable ATM switched virtual connections (SVC) for subscribers connected to the access network. The central access control unit processes ATM signalling and resource management to enable e.g. switched virtual connection over HFC. During the ATM signalling phase the applications negotiate the required resources which the central access control unit of HFC extracts. The central access control unit has the ability to allow or reject a connection (SVC) setup. As soon as the a new SVC is established the access control unit performs on the ATM layer the installation of the negotiated ATM connection values (VPI (virtual path identifier), VCI (virtual channel identifier), ...) at the different involved HFC network elements.

ABSTRACT WORD COUNT: 143

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020724 A1 Published application with search report

Examination: 021120 A1 Date of request for examination: 20020917

Withdrawal: 051207 A1 Date of withdrawal of application: 20051013

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A	(English)	200230	454
SPEC A	(English)	200230	8862
Total word count - document A			9316
Total word count - document B			0
Total word count - documents A + B			9316

...SPECIFICATION proceeded and the resources are allocated. The HFC Resource Management performs a translation of ATM traffic parameters into the MAC specific parameters. So, the dynamic MAC protocol is neither aware of the individual connections nor on their driving IP or ATM applications. The MAC protocol performs dynamic distribution of the unallocated resources on the basis of requests taking into account the different service priorities and distribution fairness...

63/5,K/9 (Item 9 from file: 348) Links

EUROPEAN PATENTS

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00988322

Device and method for dynamic regulation of the resource allocation in a computer system

Vorrichtung und Verfahren zur dynamischen Regelung der Betriebsmittelzuweisung in einem Computersystem

Dispositif et procede de regulation dynamique de l'attribution des ressources sur un systeme informatique

PATENT ASSIGNEE:

BULL S.A., (244471), 68, route de Versailles, 78430 Louveciennes, (FR),  
(Proprietor designated states: all)

INVENTOR:

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Urbain, Francois, 33, rue de Palestro, 75002 Paris, (FR)

Sitbon, Gerard, 12, rue Gagnee, 94400 Vitry, (FR)

LEGAL REPRESENTATIVE:

Denis, Herve et al (44308), BULL SA Departement de la Propriete Intellectuelle PC: P4/079 rue Jean Jaures - BP 68, 78340 Les Clayes-sous-Bois, (FR)

PATENT (CC, No, Kind, Date): EP 893761 A1 990127 (Basic)  
EP 893761 B1 040407

APPLICATION (CC, No, Date): EP 98401854 980721;

PRIORITY (CC, No, Date): FR 979369 970723

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): G06F-009/46

CITED PATENTS (EP B): EP 366344 A; EP 753812 A; WO 95/08807 A

ABSTRACT EP 893761 A1 (Translated)

Dynamic resource allocation control method for open computer system, e.g. UNIX

The method involves sorting the work into dimensions. A weight relative to each of the dimensions is allocated by the user. When the system is

heavily loaded, the work execution priorities of each dimension are modulated according to their relative weight.

When the system uses the hardware resources above a high threshold, the method will dynamically modify the priority associated with the work in progress, according to the dimensions to which it belongs. When the load of hardware use goes back below this threshold the original work priorities are re-established.

TRANSLATED ABSTRACT WORD COUNT: 101

ABSTRACT EP 893761 A1

Procede de regulation dynamique de l'attribution des ressources sur un systeme informatique ouvert de type "UNIX" caracterise en ce qu'il consiste a :

- a classer les travaux en dimension ;
- a faire attribuer par l'utilisateur un poids relatif a chacune des dimensions ;
- a moduler les priorites d'execution des travaux de chaque dimension en fonction des poids relatifs des dimensions, lorsque le systeme est tres charge.

ABSTRACT WORD COUNT: 70

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant: 040407 B1 Granted patent

Application: 990127 A1 Published application (A1with Search Report ;A2without Search Report)

Oppn None: 050330 B1 No opposition filed: 20050110

Deleted: 050309 B1 Legal representative(s) deleted 20050117

Examination: 990922 A1 Date of request for examination: 19990727

LANGUAGE (Publication,Procedural,Application): French; French; French

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(French)	199904	390
CLAIMS B	(English)	200415	408
CLAIMS B	(German)	200415	383
CLAIMS B	(French)	200415	408
SPEC A	(French)	199904	3863
SPEC B	(French)	200415	3938
Total word count - document A			4254
Total word count - document B			5137
Total word count - documents A + B			9391

...CLAIMS 2, said method re-establishing the initial priorities of the jobs when the hardware occupancy load of the system falls below a certain threshold..

4. Device for dynamic regulation of the allocation of resources in a UNIX-type open computer system including a local resource manager, comprising:
- means for...

...in progress as a function of the dimensions to which they belong.

7. Device for dynamic regulation of the allocation of resources in a UNIX-type open computer system according to one of Claims 4 or 6,

#### English Abstract

An apparatus, system, and method are disclosed for on-demand control of a grid system resource on a grid computing system. An on-demand management apparatus includes a user input module, a parameter module, and a reservation module. The user input module is configured to allow a user to input a parameter control request. The parameter control request corresponds to a performance parameter of the grid computing system. The global parameter module is configured to dynamically change the performance parameter, which corresponds to a performance resource, according to the parameter control request. The global reservation module is configured to reserve the performance resource for a grid computing operation. The on-demand management apparatus is also configured to terminate a performance resource reservation when a client reclaims the performance resources from the grid computing system.

#### French Abstract

L'invention concerne un appareil, un systeme et un procede de commande sur demande d'une ressource de systeme de grille dans un systeme informatique de grille. Un appareil de gestion sur demande comprend un module d'entree utilisateur, un module de parametres et un module de reservations. Le module d'entree utilisateur est configure pour permettre a un utilisateur d'entrer une demande de commande de parametre. Cette demande de commande de parametre correspond a un parametre de performance du systeme informatique de grille. Le module de parametres global est configure pour modifier de maniere dynamique le parametre de performance, qui correspond a une ressource de performance, en fonction de la demande de commande de parametre. Le module de reservations global est configure pour reserver la ressource de performance pour une operation informatique de grille. L'appareil de gestion sur demande selon l'invention est egalement configure pour mettre un terme a une reservation de ressource de performance lorsqu'un client veut recuperer les ressources de performance du systeme informatique de grille.

#### Legal Status (Type, Date, Text)

Publication	20050630	A2 Without international search report and to be republished upon receipt of that report.
Search Rpt	20060209	Late publication of international search report
Republication	20060209	A3 With international search report.
Republication	20060209	A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Fulltext Availability: Detailed Description

#### Detailed Description

... grid system users to allocate and reclaim performance resources on-demand, as well-as enabling dynamically allocation and reclamation of performance resources for specific client nodes within specified operating conditions.

[019] Viewing the present invention from another aspect, there is now provided a local on...

63/5,K/12 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

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01245263      \*\*Image available\*\*

DYNAMIC PRIORITIZATION OF VOICE SERVICES OVER DATA SERVICES IN A WIRELESS  
COMMUNICATION NETWORK

PRISE DE PRIORITE DYNAMIQUE DES SERVICES VOCAUX SUR LES SERVICES DE DONNEES  
DANS UN RESEAU DE RADIOCOMMUNICATIONS

Patent Applicant/Assignee:

TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), Patent Unit KI/ECS/B/AP, S-164 83  
Stockholm, SE, SE (Residence), SE (Nationality), (For all designated  
states except: US)

Patent Applicant/Inventor:

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US (Residence), CN (Nationality), (Designated only for: US)

SHAHIDI Reza, Grev Turegatan 55, 3 tr, S-114 38 Stockholm, SE, SE  
(Residence), US (Nationality), (Designated only for: US)

MADAN Seema, 12635 Picrus Street, San Diego, CA 92129, US, US (Residence)  
, IN (Nationality), (Designated only for: US)

Legal Representative:

BENNETT David E (commercial rep.), Telefonaktiebolager LM Ericsson  
(PUBL), Coats & Bennett, P.L.L.C., Post Office Box 5, Raleigh, NC  
27602, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200553252 A1 20050609 (WO 0553252)

Application: WO 2004US36767 20041103 (PCT/WO US04036767)

Priority Application: US 2003717071 20031119

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LU MC NL PL PT  
RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): H04L-012/56

International Patent Class (v7): H04Q-007/38

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7217

English Abstract

comprising means for recording that the system load has fallen below a certain threshold and for re-establishing the initial priorities of the jobs.

63/5,K/11 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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01252848      \*\*Image available\*\*

APPARATUS, SYSTEM, AND METHOD FOR ON-DEMAND CONTROL OF GRID SYSTEM  
RESOURCES

APPAREIL, SYSTEME ET PROCEDE DE COMMANDE SUR DEMANDE DE RESSOURCES DE  
SYSTEME DE GRILLE

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, Armonk,  
New York 10504, US, US (Residence), US (Nationality), (For all  
designated states except: US)

IBM UNITED KINGDOM LIMITED, P.O. Box 41, North Harbour, Portsmouth  
Hampshire PO6 3AU, GB, GB (Residence), GB (Nationality), (Designated  
for: MG)

Patent Applicant/Inventor:

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US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

WILLIAMS Julian David (agent), IBM United Kingdom Limited, Intellectual  
Property Law, Hursley Park, Winchester Hampshire SO21 2JN, GB

Patent and Priority Information (Country, Number, Date):

Patent: WO 200559748 A2-A3 20050630 (WO 0559748)

Application: WO 2004EP52850 20041108 (PCT/WO EP2004052850)

Priority Application: US 2003736473 20031215

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LU MC NL PL PT  
RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-009/46

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11260

A wireless communication network provides priority for one type of users over another type of users relative to one or more network finite resources shared by the different types of users. For example, if the available forward link transmit power at a radio base station is being shared by voice and data users, the radio base station may give priority to the voice users by reducing the aggregate amount of power allocated to current data users if the combined level of power usage by the voice and data users reaches a defined release threshold. The release threshold may be set at a call-blocking threshold, such that dynamic release is invoked if the call-blocking level is reached. Other limited resources can be managed similarly, such as by setting a release threshold relative to spreading code usage, etc.

#### French Abstract

La presente invention concerne un reseau de radiocommunications donnant a un type d'utilisateurs la priorite sur un autre type d'utilisateurs par rapport a une ou plusieurs ressources finies du reseau, partagees par les differents d'utilisateurs. Par exemple, si la puissance d'emission d'une liaison aval disponible au niveau d'une station de base radio est a partager entre utilisateurs voix et utilisateurs donnees, la station de base radio peut donner aux utilisateurs vocaux la priorite. Il lui suffit a cet effet de reduire la quantite cumulee de puissance affectee aux utilisateurs donnees courants des que le niveau combine d'utilisation de puissance par les utilisateurs voix et les utilisateurs donnees atteint un seuil defini de liberation. Ce seuil de liberation peut etre defini au niveau d'un seuil de blocage des appels, de facon a susciter une liberation dynamique des que le niveau de blocage des appels est atteint. D'autres ressources limitees peuvent etre gerees de la meme facon, et notamment par definition d'un seuil de liberation se rapportant a l'utilisation de code a etalement.

#### Legal Status (Type, Date, Text)

Publication 20050609 A1 With international search report.

Examination 20060518 Request for preliminary examination prior to end of 19th month from priority date

#### Fulltext Availability:

Detailed Description

#### Detailed Description

... can be applied to multiple resources simultaneously. For example, RBS 44 may monitor a power usage level against a power release threshold while simultaneously monitoring a spreading code usage level against a spreading code release threshold.

[0028] Regardless, if the combined usage of a shared resource of interest meets or exceeds a corresponding defined release threshold, release controller 52 dynamically releases a portion of that resource by modifying ongoing service to one or more of the current data users. In that sense, data users are penalized relative to voice users because the -release controller 52 targets data users for resource release. More broadly, the release controller 52 can be configured to prioritize any...

...for one type of



ID

user over another. In an exemplary embodiment, the present invention dynamically releases allocated resources from one or more selected data users, such that usage of a resource shared between voice and data users is maintained below a defined level. That level may be associated with call blocking, i.e., user

admission/congestion control threshold...

...users, or in combination with a static prioritization scheme, where the network uses different blocking thresholds for voice and data users.

[0044] More generally, the present invention comprises a method and apparatus for dynamic resource release. As such the present invention is not limited by the foregoing discussion of its...

63/5,K/14 (Item 4 from file: 349) Links

PCT FULLTEXT

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01201886

APPARATUS AND METHOD FOR SELF MANAGEMENT OF INFORMATION TECHNOLOGY COMPONENT

APPAREIL ET PROCEDE D'AUTOGESTION D'ELEMENT DE TECHNOLOGIE DE L'INFORMATION

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200508481 A2 20050127 (WO 0508481)

Application: WO 2004US21897 20040709 (PCT/WO US04021897)

Priority Application: US 2003486793 20030711

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-009/44

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5442

English Abstract

French Abstract

Legal Status (Type, Date, Text)

Publication 20050127 A2 With declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority.

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... a service 1 0 (for example, on-demand computing) driven directly by enterprise requirements. A self managing infrastructure can also support dynamic resource management, in which infrastructure resources, such as servers or network bandwidth, are dynamically optimized based...

Claim

... of the self-managing component.

37 The method of claim 34, further comprising:  
monitoring system resources consumed by the self-managing component; and  
controlling a quantity of the system resources consumed by the self-managing component according to a politeness gene of the self-managing component.

. The method of claim...

...of the self-managing component includes a politeness gene, and a quantity of the system resources consumed by the self-managing component is controlled according to the politeness gene.

48 The apparatus of claim 42, wherein...

63/5,K/16 (Item 6 from file: 349) [Links](#)

PCT FULLTEXT

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01171551 \*\*Image available\*\*

AN APPARATUS AND METHOD FOR ALLOCATING RESOURCES WITHIN A SECURITY PROCESSOR

APPAREIL ET PROCEDE POUR L'ALLOCATION DE RESSOURCES AU SEIN D'UN PROCESSEUR SECURISE

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Legal Representative:

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LLP, 12400 Wilshire Boulevard, 7th Floor, Los Angeles, CA 90025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200492882 A2-A3 20041028 (WO 0492882)

Application: WO 2004US10786 20040407 (PCT/WO US04010786)

Priority Application: US 2003411945 20030412

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-011/30

International Patent Class (v7): G06F-012/14; H04L-009/00; H04L-009/32

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14103

English Abstract

A security processing apparatus is described comprising: a cryptographic processor having a first plurality of security processing resources initially allocated to process a first type of data traffic and a second plurality of security processing resources initially allocated to process a second type of data traffic; a monitor module to monitor load on the first plurality of security processing resources and the second plurality of security processing resources as the first and second types of data traffic are processed; a resource allocation module to reallocate some of the first plurality of security processing resources from the first type of data traffic to the second type of data traffic if detected load on the second plurality of security processing resources is above a

specified threshold value.

#### French Abstract

La presente invention a trait a un appareil de traitement securise comportant : un processeur cryptographique comprenant un premier ensemble de ressources de traitement securise initialement allouees au traitement d'un premier type de trafic de donnees et un deuxieme ensemble de ressources de traitement securise initialement allouees au traitement d'un deuxieme type de trafic de donnees ; un module de controle pour le controle de charge sur le premier ensemble de ressources de traitement securise et sur le deuxieme ensemble de ressources de traitement de securite au fur et a mesure du traitement des premier et deuxieme types de trafic de donnees ; un module d'allocation de ressources pour la reaffectation de certaines de la premiere pluralite de ressources de traitement securise depuis le premier type de trafic de donnees vers le deuxieme type de trafic de donnees si la charge detectee sur le deuxieme ensemble de ressources de traitement de securite est superieure a une valeur seuil determinee.

#### Legal Status (Type, Date, Text)

Publication 20041028 A2 Without international search report and to be republished upon receipt of that report.  
Search Rpt 20050310 Late publication of international search report  
Republication 20050310 A3 With international search report.  
Republication 20050310 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Fulltext Availability:

Detailed Description

#### Detailed Description

... load on the execution cores EC4-EC9 and the queues dedicated to IPSEC. If the load on EC4-EC9 is below some specified threshold value, then the processing resource allocation module 562 will automatically reallocate one or more of the execution cores from EC4-EC9 to the SSL group, EC1-EC3, to process SSL traffic. In one embodiment, the specified "threshold" is a determination that, if the execution cores are reallocated from EC4-EC9, there will still...on EC0-EC1 or EC2-EC3 is below some specified threshold value, then the processing resource allocation module 562 will automatically reallocate one or more of the execution cores from EC0-EC1 or EC2-EC3 to the EC4-EC7 group, to process SSL traffic. In one embodiment, the specified "threshold" is a determination that, if the execution cores are reallocated from EC0-EC3, there will...

...an advanced flow-through security processing architecture capable of concurrently processing multiple security protocols and dynamically reallocating processing resources to different protocols and/or defined service levels in response to detected changes in data traffic.

[00821 As in previous embodiments, the security processor 900 illustrated in Figure 9 includes a...traffic buffered within the output memory 922.

If the amount of XML DSig and SSL traffic is below a specified amount (e.g., less than 50% the defined threshold), then the processing resource allocation module 562 may automatically reallocate one or more of the execution cores from EC4-EC8 to the IPSEC group of...

63/5,K/17 (Item 7 from file: 349) Links

PCT FULLTEXT

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01170823      \*\*Image available\*\*

AN APPARATUS AND METHOD FOR ALLOCATING RESOURCES WITHIN A SECURITY  
PROCESSING ARCHITECTURE USING MULTIPLE GROUPS

DISPOSITIF ET PROCEDE D'ATTRIBUTION DE RESSOURCES AU SEIN D'UNE  
ARCHITECTURE DE TRAITEMENT DE SECURITE UTILISANT DES GROUPES MULTIPLES

Patent Applicant/Assignee:

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DICKINSON Philip H, 11872 Placer Spring Court, Cupertino, CA 95014, US,

Legal Representative:

MALLIE Michael J (et al) (agent), Blakely, Sokoloff, Taylor & Zafman

LLP, 7th Floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200493378 A1 20041028 (WO 0493378)

Application: WO 2004US10912 20040408 (PCT/WO US04010912)

Priority Application: US 2003411943 20030412

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): H04L-009/00

International Patent Class (v7): G06F-009/00; G06F-009/46

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14514

#### English Abstract

An apparatus is described comprising: a plurality of security processing resources for processing two or more different types of data traffic within a cryptographic processor; a first scheduler to provide a first type of data traffic to a first predefined subset of the security processing resources using a first scheduling technique; and a second scheduler to provide a second type of data traffic to a second predefined subset of the security processing resources using a second scheduling technique.

#### French Abstract

L'invention concerne un dispositif comprenant: une pluralite de ressources de traitement de securite permettant de traiter deux types differents ou plus de trafic de donnees au sein d'un processeur cryptographique; un premier ordonnancier qui fournit un premier type de trafic de donnees a un premier sous-ensemble predefini de ressources de traitement de securite au moyen d'une premiere technique d'ordonnancement; et un second ordonnancier qui fournit un second type de trafic de donnees a un second sous-ensemble predefini de ressources de traitement de securite au moyen d'une seconde technique d'ordonnancement.

#### Legal Status (Type, Date, Text)

Publication 20041028 A1 With international search report.

Publication 20041028 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Fulltext Availability:

Detailed Description

#### Detailed Description

... load on the execution cores EC4-EC9 and the queues dedicated to IPSEC. If the load on EC4-EC9 is below some specified threshold value, then the processing resource allocation module 562 will automatically reallocate one or more of the execution cores from

1 1

EC4-EC9 to the SSL group, EC1-EC3, to process SSL traffic. In one embodiment, the specified "threshold" is a determination that, if the execution cores are reallocated from EC4-EC9, there will...on ECO-EC1 or EC2-EC3 is below some specified threshold value, then the processing resource allocation module 562 will automatically reallocate one or more of the execution cores from ECO-EC1 or EC2-EC3 to the EC4-EC7 group, to process SSL traffic. In one embodiment, the

20

specified "threshold" is a determination that, if the execution cores are reallocated from ECO-EC3, there will...

...an advanced flow-through security

processing architecture capable of concurrently processing multiple security protocols and dynamically reallocating processing resources to different protocols and/or defined service levels in response to detected changes in data traffic.

As in previous embodiments, the security processor 900 illustrated in Figure 9 includes a plurality...traffic buffered within the output memory

922. If the amount of XML DSig and SSL traffic is below a specified amount (e.g., less than 50% the defined threshold), then the processing resource allocation module 562 may automatically reallocate one or more of the execution cores from EC4-EC8 to the IPSEC group of...

63/5,K/21 (Item 11 from file: 349) Links

PCT FULLTEXT

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01045178      \*\*Image available\*\*

AUTOMATIC NETWORK LOAD BALANCING USING SELF-REPLICATING RESOURCES

EQUILIBRAGE AUTOMATIQUE DE LA CHARGE DU RESEAU UTILISANT DES RESSOURCES  
AUTODUPLIQUEES

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200375152 A1 20030912 (WO 0375152)

Application: WO 2003US6177 20030227 (PCT/WO US0306177)

Priority Application: US 200287055 20020301

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK  
SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-009/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7297

English Abstract

The present invention provides a method, system and computer program to balance the computational and network load in networked computers using self-replicating programs, referred to as symbionts. The method presented here reduces hostspots by encapsulating a resource in a symbiont, and having a user access that symbiont through programs that host symbionts,

referred to as hosts. When a host accesses a symbiont, it may replicate a copy of that symbiont resource on itself (104) or may be redirected to some other replicate of the same symbiont (106, 107). The host then offers the replicated resource on the network to alleviate the load experienced by the original symbiont's computer. If the load on a symbiont falls below a threshold, it is removed from the host on which it was hosted (102).

#### French Abstract

L'invention porte sur un procede, sur un systeme et un sur programme informatique equilibrant la charge de calcul et de reseau entre des ordinateurs en reseau en utilisant des programmes autodupliques, les "symbionts". Ledit procede reduit les sites hotes en encapsulant une ressource dans un symbiont et en donnant a un utilisateur acces a ce symbiont par l'intermediaire de programmes, dits hotes, hebergeant les symbionts. Lorsqu'un hote accede a un symbiont, il peut faire une copie de ce symbiont pour lui-meme (104) ou il peut etre redirige sur d'autres copies du meme symbiont (106, 107). L'hote met alors la ressource dupquee a la disposition du reseau pour allger la charge subie par l'ordinateur original du symbiont. Si la charge sur le symbiont tombe au-dessous d'un certain seuil, elle est retiree de l'hote qui l'avait heberge (102).

#### Legal Status (Type, Date, Text)

Publication 20030912 A1 With international search report.

Correction 20031218 Corrected version of Pamphlet front pages: under (54) published title replaced by correct title

Republication 20031218 A1 With international search report.

#### Patent and Priority Information (Country, Number, Date):

Patent: ...20030912

#### Fulltext Availability:

Detailed Description

Publication Year: 2003

#### Detailed Description

... of resources, without the need for additional dedicated hardware. Indeed, such a replication should be dynamic, i.e. the resources should be automatically replicated depending upon its current demand; if the demand falls below a predetermined threshold, then such a replicated resource should be removed from the node onto which it had...

? t 63/5,k/22,35-36,41,49,54,56-58

63/5,K/22 (Item 12 from file: 349) Links

PCT FULLTEXT

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01041454 \*\*Image available\*\*

APPARATUS AND METHOD OF DYNAMICALLY REPARTITIONING A COMPUTER SYSTEM IN  
RESPONSE TO PARTITION WORKLOADS



APPAREIL ET PROCEDE DE REPARTITION DYNAMIQUE D'UN SYSTEME INFORMATIQUE EN  
REPONSE A DES CHARGES DE TRAVAIL DE PARTITIONS

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IBM UNITED KINGDOM LIMITED, PO Box 41, North Harbour, Portsmouth,  
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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200371424 A2-A3 20030828 (WO 0371424)

Application: WO 2003GB505 20030205 (PCT/WO GB03000505)

Priority Application: US 200282746 20020221

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK  
SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-009/50

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4775

English Abstract

A method, system and apparatus for dynamically repartitioning a  
partitioned computer system in response to workload demands are provided.  
In one embodiment, a monitoring software is used to monitor workloads on  
all resources in all the partitions. If a workload on a resource in a  
partition is determined to exceed a maximum threshold, a similar resource  
is allocated to the partition. The similar resource is preferentially an  
unassigned or unallocated resource. However, resources from other  
partitions may also be used. In another embodiment, a workload schedule  
is stored in a workload profile. If a scheduled workload in any of the  
resources of a partition is to exceed a maximum threshold, additional  
similar resources will be allocated to the partition before the scheduled  
workload.

French Abstract

L'invention concerne un procede, un systeme et un appareil pour repartir  
dynamiquement un systeme informatique partitionne en reponse a des

demandes de charge de travail. Dans un mode de realisation, un logiciel de controle est utilise pour controler les charges de travail sur toutes les ressources de toutes les partitions. Si une charge de travail sur une ressource dans une partition est determinee comme etant superieure au seuil maximum, une ressource similaire est allouee a la partition. La ressource similaire est de preference une ressource non assignee ou non allouee. Cependant, des ressources d'autres partitions peuvent aussi etre utilisees. Dans un autre mode de realisation, un programme de charge de travail est stocke dans un profil de charge de travail. Si une charge de travail programmee dans une ressource quelconque de la partition depasse un seuil maximum, des ressources similaires supplementaires seront allouees a la partition avant la charge de travail programmee.

Legal Status (Type, Date, Text)

Publication 20030828 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20030925 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt . 20040910 Late publication of international search report  
Republication 20040910 A3 With international search report.  
Republication 20040910 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Patent and Priority Information (Country, Number, Date):

Patent: ...20030828  
Fulltext Availability:  
Claims  
Publication Year: 2003

Claim

... determining whether a workload on a resource in a partition exceeds a maximum threshold; and  
automatically allocating a similar resource to the partition if it is determined that the workload exceeds the maximum threshold.

2 The method of Claim 1 wherein the similar resource is a resource that has...workload on a resource in a partition exceeds a maximum threshold; and  
code means for automatically allocating a similar resource to the partition if it is determined that the workload exceeds the maximum threshold. ...

15 A computer program product on a computer readable medium for dynamically re-...a workload on a resource in a partition exceeds a maximum threshold; and  
means for automatically allocating a similar resource to the partition if it is determined that the workload exceeds the maximum threshold.

17 An apparatus for dynamically re-partitioning a partitioned computer system in response to workloads...whether a workload on a resource in a partition exceeds a maximum threshold, and to automatically allocate a similar resource to the

partition if it is determined that the workload exceeds the maximum threshold.

19 A computer system that is partitioned into a plurality of partitions, the computer system...

63/5,K/35 (Item 25 from file: 349) Links

PCT FULLTEXT

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00858392      \*\*Image available\*\*

ACTIVITY MONITOR AND RESOURCE MANAGER IN A NETWORK ENVIRONMENT

CONTROLEUR D'ACTIVITE ET GESTIONNAIRE DE RESSOURCES DANS UN ENVIRONNEMENT  
DE RESEAU

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MIRANDA David G (agent), Testa, Hurwitz & Thibeault, LLP, High Street

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200191402 A2-A3 20011129 (WO 0191402)

Application: WO 2001US16468 20010522 (PCT/WO US0116468)

Priority Application: US 2000578779 20000525

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): H04L-012/26

International Patent Class (v7): H04L-012/24; H04L-029/06

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6385

English Abstract

An apparatus and method for monitoring the activity level of a user by the client and managing the network resources, including server resources, in response to the level of activity identified by the client.

In one embodiment the invention relates to a method for managing network resources, in response to the level of activity identified by the client. In another embodiment the invention relates to a system for managing network resources, in response to the level of activity identified by the client. In still yet another embodiment the invention relates to a server for managing resources allocated to an external client, in response to the level of activity identified by the client.

#### French Abstract

L'invention concerne un appareil et un procede de controle du niveau d'activite d'un utilisateur par un client et de gestion de ressources de reseau, dont les ressources de serveur, en reponse au niveau d'activite identifie par le client. Dans un mode de realisation, l'invention porte sur un procede de gestion de ressources de reseau, en reponse au niveau d'activite identifie par le client. Dans un autre mode de realisation, l'invention se rapporte a un systeme de gestion de ressources de reseau, en reponse au niveau d'activite identifie par le client. Dans encore un autre mode de realisation, l'invention concerne un serveur pour la gestion de ressources attribuees a un client externe, en reponse au niveau d'activite identifie par le client.

#### Legal Status (Type, Date, Text)

Publication 20011129 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20020307 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20020808 Late publication of international search report  
Republication 20020808 A3 With international search report.  
Republication 20020808 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Patent and Priority Information (Country, Number, Date):

Patent: ...20011129  
Fulltext Availability:  
Claims  
Publication Year: 2001

#### Claim

... claim 2 wherein step (d) comprises reducing said at least one allocated resource to a predetermined level such that when the user resumes activity, resumption of said pre-reduced allocated resource is substantially transparent to said user.

11 The method of claim 2 wherein step (d) comprises the steps...

63/5,K/36 (Item 26 from file: 349) [Links](#)

PCT FULLTEXT

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00856130 \*\*Image available\*\*

AUTOMATED JOB CREATION FOR JOB PREPARATION

CREATION AUTOMATISEE D'UN TRAVAIL POUR LA PREPARATION DES TRAVAUX

Patent Applicant/Assignee:

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(Residence), US (Nationality)

Inventor(s):

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Legal Representative:

CLARK Richard K (agent), Brinks Hofer Gilson & Lione, P.O. Box 10087,  
Chicago, IL 60610, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200189132 A2-A3 20011122 (WO 0189132)

Application: WO 2001US15710 20010516 (PCT/WO US0115710)

Priority Application: US 2000573113 20000517

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AU AZ BA BB BG BR BY BZ CA CN CO CR CZ DM DZ EC EE GD GE GH  
GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LV MA MD MG MK MN MW  
MX MZ NO NZ PL RO RU SD SG SI SK SL TJ TM TT TZ UA UG UZ VN YU ZA ZW  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-015/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12506

English Abstract

A system and method is provided for producing printing instructions for a printed end document to a job preparation station (106). The printed end document is made up of a plurality of other documents received from the customer (102) which are to be inserted in a predefined order and in a predefined format. The job submission station (104) includes a computer (116) and a receiver (114) which receives the plurality of documents in electronic format. An input device such as a keyboard or mouse, is used to provide the job submission station operator with the ability to provide print instructions to the computer (116). The operator uses the input device to arrange all of the documents into an electronic folder, such as a directory, and to arrange the documents in the order in which the documents are to be printed to compose the end document.

French Abstract

L'invention concerne un systeme et un procede pour donner des instructions d'impression de production, relatives a un document final imprime, a un poste de preparation de travaux. Le document final imprime est constitue d'une pluralite d'autres documents recus en provenance du client, qui doivent etre inseres dans un ordre predefini et egalement dans un format predefini. Le poste de soumission de travaux comprend un ordinateur et un recepteur qui recoit la pluralite de documents en format electronique. Un dispositif d'entree, tel qu'un clavier ou une souris,

est utilise pour permettre a l'operateur du poste de soumission de travaux d'entrer des instructions dans l'ordinateur. Ledit operateur utilise le dispositif d'entree pour disposer tous les documents dans un fichier electronique, tel qu'un repertoire, et pour disposer les documents dans l'ordre dans lequel ils doivent etre imprimes pour composer le document final. L'ordinateur est programme pour convertir automatiquement le document en un fichier dont le format est pret pour l'impression et combiner la pluralite de documents pour creer un seul document. L'ordinateur genere egalement un ticket de travail electronique qui donne des attributs globaux pour le produit final imprime.

Legal Status (Type, Date, Text)

Publication 20011122 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20020606 Late publication of international search report

Republication 20020606 A3 With international search report.

Patent and Priority Information (Country, Number, Date):

Patent: ...20011122

Fulltext Availability:

Detailed Description

Publication Year: 2001

Detailed Description

... print resources in the shop or there is too big a queue for the particular resource, the resource allocator can make a determination, either automatically or with manual operator intervention, of how best to print that particular page. Further, the resource allocator can include "policies" or predefined rules for handling particular capability "requests". A policy can be implemented to force the whole document to print on a particular...

63/5,K/41 (Item 31 from file: 349) Links

PCT FULLTEXT

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00853902

REHOMING AND RESOURCE SHARING IN CELLULAR COMMUNICATIONS NETWORKS

PROCEDE DE RE-RADIORALLIEMENT ET DE PARTAGE DES RESSOURCES DANS DES RESEAUX CELLULAIRES DE COMMUNICATIONS

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200186988 A1 20011115 (WO 0186988)

Application: WO 2001SE971 20010504 (PCT/WO SE0100971)

Priority Application: US 2000569244 20000511

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): H04Q-007/34

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9375

#### English Abstract

A method, system, and apparatus enables automatic radio base station (RBS) (110(1)) rehoming from a first radio network controller (RNC) (115(1)) to a second RNC (115(2)) when the first RNC (115(1)) becomes overloaded and/or automatic resource sharing between/among RNCs when one RNC becomes overloaded. A managing/controlling entity (125) receives load measuring reports from RNCs and analyzes them. If a first RNC (115(1)) is frequently and/or constantly experiencing an overcapacity condition, then an RBS (110(1)) of the RNC (115(1)) may be rehomed to a second RNC (115(2)) without operator intervention. If a first RNC (115(1)) temporarily experiences an overcapacity condition, then the workload of the first RNC (115(1)) may be shared by a second RNC (115(2)) also without operator intervention. When rehoming an RBS (110(1)) or sharing a load of a first RNC (115(1)), ongoing connections are completed by the first RNC (115(1)) where the connection was initiated, but new connections are (for the rehoming case) or new connections may be (for load sharing cases) initiated using a second RNC (115(2)).

#### French Abstract

La presente invention concerne un procede, un systeme et un appareil qui assurent le re-radiorallieement automatique d'une station radio fixe (SRF) (110(1)) depuis un premier dispositif de commande de reseau de radiodiffusion (CRR) (115(1)) sur un deuxieme dispositif de commande de reseau de radiodiffusion (115(2)) lorsque le premier CRR (115(1)) devient surcharge et/ou qui assurent un partage automatique des ressources entre des CRR ou parmi ces derniers lorsqu'un CRR devient surcharge. Une entite (125) de gestion/contrôle recoit des rapports de mesure de la charge provenant des CRR et analyse ces derniers. Si un premier CRR (115(1)) est souvent et/ou constamment sujet a un etat de surcapacite, une SRF (110(1)) du CRR (115(1)) peut etre renvoyee a un deuxieme CRR (115(2)) pour y etre rehebergee, sans aucune intervention d'un operateur. Si un premier CRR (115(1)) se trouve temporairement dans une condition de surcapacite, la charge de travail du premier CRR (115(1)) peut etre

partagee par un deuxieme CRR (115(2)) de meme sans aucune intervention d'un operateur. Lors d'un re-hebergement d'une SRF (110(1)) ou du partage d'une charge d'un premier CRR (115(1)), les connexions prolongees sont terminees par le premier CRR (115(1)) au niveau duquel la connexion a ete initiee, alors que de nouvelles connexions sont initiees (dans le cas de re-hebergement) ou de nouvelles connexions peuvent etre initiees (dans le cas de partage de la charge de travail) au moyen d'un deuxieme CRR (115(2)).

Legal Status (Type, Date, Text)

Publication 20011115 A1 With international search report.

Publication 20011115 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20020131 Request for preliminary examination prior to end of 19th month from priority date

Patent and Priority Information (Country, Number, Date):

Patent: ...20011115

Fulltext Availability:

Detailed Description

Publication Year: 2001

Detailed Description

... available capacity determination may be based on a comparison between capacity data included in the load measuring reports and a second predetermined threshold.

In still other embodiment(s), automatic RBS rehomeing from a first RNC to a second RNC is effectuated by providing (e.g., optionally substantially instantaneous) 0 take over from a resource point of view and a gradual take over of MS connections.

For example, after determining...

63/5,K/49 (Item 39 from file: 349) Links

PCT FULLTEXT

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00739995

MULTIPARTY CONFERENCING AND COLLABORATION SYSTEM

SYSTEME DE CONFERENCE ET DE COLLABORATION COLLECTIVE

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200052887 A1 20000908 (WO 0052887)  
Application: WO 2000US1198 20000118 (PCT/WO US0001198)  
Priority Application: US 99122429 19990302; US 99395508 19990914

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): H04L-012/18

International Patent Class (v7): H04M-003/56

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 17367

English Abstract

A networking conferencing and collaboration tool utilizing an enhanced T.128 application sharing protocol. This enhanced protocol is based on a per-host model command, control, and communication structure. This per-host model reduces network traffic, allows greater scalability through dynamic system resource allocation, allows a single host to establish and maintain a share session with no other members present, and supports true color graphics. The per-host model allows private communication between the host and a remote with periodic broadcasts of updates by the host to the entire share group. This per-host model also allows the host to allow, revoke, pause, and invite control of the shared applications. Subsequent passing of control is provided, also with the hosts acceptance. The model contains no fixed limit on the number of participants, and dynamically allocates resources when needed to share or control a shared application. These resources are then freed when no longer needed. Calculation of minimum capabilities is conducted by the host as the membership of the share changes. The host then transmits these requirements to the share group.

French Abstract

Outil de conference et de collaboration collective utilisant un protocole de partage d'application T.128 ameliore. Ce protocole ameliore est base sur une structure de commande, de gestion et de communication de modele par hote. Ce modele par hote reduit le trafic reseau, il permet une plus grande capacite d'evolution par l'intermediaire d'une affectation dynamique des ressources systemes, il permet a un seul hote d'etablir et de maintenir une session de partage sans qu'aucun autre membre ne soit present, et il assure un graphisme en couleur vraie. Le modele par hote permet les communications privees entre l'hote et une unite distante avec des diffusions periodiques de mise a jour par l'hote vers tout le groupe

de partage. Ce modele par hote permet egalement a l'hote d'autoriser, d'annuler, de marquer une pose et d'inviter a une gestion des applications partagees. Le passage ulterieur de gestion est prevu, egalement avec acceptation des hotes. Le modele ne contient pas de limite fixe du nombre de participants et il affecte de facon dynamique les ressources lorsque cela est necessaire pour partager ou gerer une application partagee. Ces ressources sont ensuite liberees lorsqu'elles ne sont plus necessaires. Le calcul des capacites minimum est effectuee par l'hote a mesure que les membres du groupe de co-usagers changent. L'hote transmet ensuite ces conditions au groupe de co-usagers.

Legal Status (Type, Date, Text)

Publication 20000908 A1 With international search report.

Publication 20000908 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20001102 Request for preliminary examination prior to end of 19th month from priority date

Patent and Priority Information (Country, Number, Date):

Patent: ...20000908

Fulltext Availability:

Detailed Description

Publication Year: 2000

Detailed Description

... by the Win 9x platform. A

preferred embodiment of the instant invention, therefore, removes the fixed limit of users (now number of members in a conference is limited only by the available memory of the host) and utilizes dynamic system resource allocation. As these problems were resolved as will be described below, an underlying problem of...

63/5,K/54 (Item 44 from file: 349) Links

PCT FULLTEXT

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00414531 \*\*Image available\*\*

PROCESS FACILITY MANAGEMENT MATRIX AND SYSTEM AND METHOD FOR PERFORMING BATCH PROCESSING IN AN ON-LINE ENVIRONMENT

MATRICE, SYSTEME ET PROCEDE DE GESTION D'INSTALLATIONS, DESTINES A EXECUTER UN TRAITEMENT PAR LOTS DANS UN ENVIRONNEMENT EN DIRECT

Patent Applicant/Assignee:

CITIBANK N A,

Inventor(s):

HUTCHINGS Thomas A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9804992 A2 19980205

Application: WO 97US12914 19970725 (PCT/WO US9712914)

Priority Application: US 96686524 19960726

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT  
RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN GH KE LS MW SD SZ UG ZW AM  
AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class (v7): G06F-017/60

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11815

#### English Abstract

A processing system and method receive batch payment data from a plurality of different sources, such as lock-boxes, an ATM or customer activated terminal, an enhanced telephone, a bank teller, or a personal computer (21). The batch payment data is converted into individual transaction data for on-line processing and is sent to a temporary payment queue (22). A transaction mover places the data from the queue to a transaction queue (23) and a transaction router subsequently assigns the transactions to available drivers (24). Each driver processes the payment data and makes appropriate account information updates to a set of master files (25). A transaction handler coordinates the control of the transaction mover as well as the control of the transaction router. The system operates in conjunction with on-line operations, such as customer service and other mortgage services, and has a transaction handler monitor which controls the speed of processin.

#### French Abstract

Ce systeme et ce procede de traitement recoivent des donnees sur des paiements par lots a partir d'une pluralite de sources differentes, telles que des boites postales scellees, un terminal active de client ou un guichet automatique bancaire, un telephone electronique, un guichet bancaire ou un ordinateur personnel. Ces donnees par lots sont converties en donnees de transaction individuelle destinees a un traitement en direct et sont envoyees a une file provisoire de paiements. Un module de deplacement de transactions place dans une file de transactions les donnees provenant de la file provisoire et un routeur de transactions attribue ensuite les transactions a des modules de gestion disponibles, chacun de ceux-ci traitant lesdites donnees et executant des mises a jour appropriees d'informations de comptes sur un ensemble de fichiers maitres. Un gestionnaire de transactions coordonne la commande du module de deplacement de transactions, de meme que celle du routeur de celles-ci. Le systeme fonctionne conjointement avec des operations en direct, tel qu'un service client et autres services d'emprunt hypothecaire, et il possede un moniteur de gestion des transactions qui commande la vitesse de traitement de sorte que les operations en direct puissent continuer pendant le traitement des donnees sur les paiements. Etant donne que les mises a jour des fichiers maitres, lesquelles doivent refleter les donnees recues sur les paiements, se produisent pendant les

heures normales d'ouverture et non a la fin de la journee, on peut ainsi grandement reduire des retards dans cette mise a jour. La commande de vitesse effectuee par le moniteur de gestion permet au systeme et au procede d'equilibrer le traitement des donnees recues par lots avec une activite normale de systeme de controle d'informations destinees au client.

Patent and Priority Information (Country, Number, Date):

Patent: ...19980205

Fulltext Availability:

Detailed Description

Publication Year: 1998

Detailed Description

... day without

the spikes' that usually occur with other conventional processing systems. The monitor 35 self controls the resource consumption, whereby terminal slow-down and response are controlled. The PFM system 12 will consume...

63/5,K/56 (Item 46 from file: 349) [Links](#)

PCT FULLTEXT

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00328283

PROBABILISTIC RESOURCE ALLOCATION SYSTEM WITH SELF-ADAPTIVE CAPABILITY  
SYSTEME ADAPTATIF D'AFFECTATION DE RESSOURCES PAR CALCUL DE PROBABILITE

Patent Applicant/Assignee:

YUFIK Yan M,

Inventor(s):

YUFIK Yan M,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9610793 A1 19960411

Application: WO 95US12217 19950929 (PCT/WO US9512217)

Priority Application: US 94312961 19940930

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA JP KR RU AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class (v7): G06F-015/00

International Patent Class (v7): G06F-17:50

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14978

English Abstract

A probabilistic resource allocation system is disclosed containing a low capacity computational module STM (30) and a self-organizing associative network LTM (20) where nodes represent resources, terminal end nodes

represent goals, and weighted links represent order of resource association. Goals and their priorities are indicated by the user, and allocation decisions are made in STM, while association of resources are supplied by LTM based on the association strength. Weights are assigned to network links based on the frequency and relative success in the previous decision. Accumulation of allocation history within LTM reduces computational demands on subsequent allocations. The network automatically partition itself into strongly associated packets allowing fast approximate computation and display of allocation solutions satisfying the overall reliability and other user-imposed constraints. System performance improves over time based on the performance feedback.

#### French Abstract

La presente invention concerne un systeme d'affectation de ressources par calcul de probabilite, ledit systeme comportant un module a faible capacite de calcul STM (30) et un reseau associatif a auto-organisation LTM (20) ou les noeuds representent des ressources elementaires, les noeuds d'extremite de reseau representent des buts, et des liens ponderes representent l'ordre d'affectation de ressources dans differents episodes d'affectations. Les buts et leurs priorites sont signales par l'utilisateur, les decisions d'affectation etant prises au niveau du STM, alors que les associations de ressources admissibles sont fournies au LTM en fonction de la force d'association. Les poids sont affectes aux liaisons de reseau en fonction de la frequence et des succes relatifs de mise en oeuvre de ces liaisons a l'occasion des decisions d'affectation anterieures. La constitution d'un historique des affectations au niveau du LTM reduit le travail de calcul pour les affectations ulterieures. Le reseau se partitionne automatiquement en paquets de haute fiabilite fortement associes, ce qui permet un calcul approche rapide et l'affichage des solutions d'affectations respectant les contraintes globales de fiabilite ainsi que les autres contraintes de niveau superieur. Le retour d'information concernant le rendement procure au systeme un meilleur rendement au niveau de la ressource temps.

#### PROBABILISTIC RESOURCE ALLOCATION SYSTEM WITH SELF-ADAPTIVE CAPABILITY

Patent and Priority Information (Country, Number, Date):

Patent: ...19960411

Fulltext Availability:

Detailed Description

Publication Year: 1996

#### Detailed Description

PROBABILISTIC RESOURCE ALLOCATION SYSTEM  
WITH SELF-ADAPTIVE CAPABILITY

Field of the invention

This invention relates generally to systems for solving resource allocation...the Invention

The present invention addresses these deficiencies of the prior art by providing a self-adaptive system for solving resource allocation and similar problems.

According to the invention, prior solutions to similar problems are stored...in an overall resource allocation computation;

Fig, 2 shows a schematic outline view of a self adaptive resource allocation system according to one embodiment of the invention;  
Figs. 3(a)-3(f) shows...

63/5,K/57 (Item 47 from file: 349) [Links](#)

PCT FULLTEXT

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00282883

FLOW CONTROL METHOD

PROCEDE DE REGULATION DE DEBIT

Patent Applicant/Assignee:

GPT LIMITED,

ARNOLD John Spencer,

Inventor(s):

ARNOLD John Spencer,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9501029 A1 19950105

Application: WO 94GB1323 19940620 (PCT/WO GB9401323)

Priority Application: GB 9312741 19930621

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP KR KZ  
LK LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN  
AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN  
ML MR NE SN TD TG

Main International Patent Class (v7): H04L-012/56

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2023

English Abstract

In an ATM network, traffic can be self-regulated to avoid congestion by a method where the "congested" indication provided for in the Payload Type field of the standard cell format is set by a switch when the size of queues provided in the switch to statistically multiplexed switched inputs onto output ports suggests the approach of congestion and where the said "congested" indication is subject to a check at the receiving port of the network and a message is sent to the source port if the proportion of cells carrying the "congested" indication on a particular channel is relatively high and where, on receipt of such a message, the permitted bandwidth of the channel is reduced and, if no congestion messages are received over a specified period the permitted bandwidth is increased, said reduction and increase of bandwidth being in small increments between absolute limits.

#### French Abstract

Dans un reseau MTA, la regulation du trafic peut etre automatique de maniere a eviter tout encombrement, grace a un procede comprenant plusieurs etapes. Une indication "encombrement" prevue dans le champ Type de Charge Utile de la structure cellulaire normale est determinee par un commutateur lorsque la longueur des files d'attente presentes dans le commutateur au niveau des entrees multiplexees statistiquement et commutees sur les ports de sortie indique l'imminence d'un encombrement, et ladite indication "encombrement" subit un controle au niveau du port de reception du reseau. Un message est envoye au port d'origine si la proportion des cellules portant l'indication "encombrement" dans un canal donne est relativement elevee. Lorsqu'un tel message est recu, la largeur de bande permise du canal diminue, et lorsqu'aucun message faisant etat d'un encombrement n'est recu dans une periode predeterminee, la largeur de bande permise augmente, cette augmentation et cette diminution de la largeur de bande etant realisees par petites etapes entre des limites absolues.

#### Patent and Priority Information (Country, Number, Date):

Patent: ...19950105

#### Fulltext Availability:

Detailed Description

Publication Year: 1995

#### Detailed Description

... well-balanced network thus it is important  
that a periodic check is made by the Resource Manager; the  
self-regulating mechanism will however tend to distort the results,  
Because of the non-linear relationship between...

63/5,K/58 (Item 48 from file: 349) Links

PCT FULLTEXT

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00161983 \*\*Image available\*\*

TELECOMMUNICATION SYSTEM FOR TRANSMITTING INFORMATION BETWEEN SUBSCRIBERS  
CONNECTED TO A BUS SYSTEM

SYSTEME DE TELECOMMUNICATION POUR LA TRANSMISSION D'INFORMATIONS ENTRE DES  
ABONNES RELIES A UN SYSTEME DE BUS

Patent Applicant/Assignee:

TELEFONAKTIEBOLAGET LM ERICSSON,  
HAGERSTEN Erik Ernst,  
GAUFFIN Lars Gosta,

Inventor(s):

HAGERSTEN Erik Ernst,  
GAUFFIN Lars Gosta,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8908363 A1 19890908

Application: WO 89SE94 19890302 (PCT/WO SE8900094)

Priority Application: SE 88745 19880302

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE FR GB IT LU NL SE US

Main International Patent Class (v7): H04L-011/16

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5058

English Abstract

The invention relates to a telecommunication system for transmitting speech and data information in time divided form through high speed buses (DB) to which are connected a plurality of nodes, each of which is in turn connected to a plurality of subscribers who can have an extremely varied need of bandwidth. Bridges connect the buses with each other so that a matrix network (M) is obtained in which all subscribers have the opportunity of communication with each other, and in which each node has the possibility of being connected to at least two different buses in the network. Information on the buses is divided into static and dynamic time slots. Each node is allocated at least one static time slot so that every node is given fixed connection to every other node on the common bus. Dynamic time slots are also allocated to the nodes in proportion to their particular bandwidth needs. If required, each node can be allocated unutilised dynamic time slots from other nodes. Each node includes a node handler (NH) which converts and exchanges information under the control of a node processor (NP) between subscribers, nodes and buses. For transmitting information between buses a node handler (NH) is connected as a bridge at each of the intersection points in said matrix network.

French Abstract

Un systeme de telecommunication pour la transmission d'informations orales et de donnees par secteurs temporels par des bus rapides (DB) auxquels sont relies une pluralite de noeuds, dont chacun est a son tour relie a une pluralite d'abonnes dont les besoins en largeurs de bande peuvent etre tres varies. Les bus sont relies entre eux par des passerelles de sorte que l'on obtient un reseau de matrices (M) ou tous les abonnes ont la possibilite de communiquer entre eux, et ou chaque noeud peut etre relie a au moins deux bus distincts du reseau. L'information sur les bus est divisee en tranches de temps statiques et dynamiques. On affecte a chaque noeud au moins une tranche de temps statique de sorte que chaque noeud recoit une liaison fixe avec tous les autres noeuds du bus commun. On affecte de meme des intervalles de temps dynamiques aux noeuds en fonction de leurs besoins propres en largeurs de bande. Au besoin, on peut affecter a chaque noeud des intervalles de temps dynamiques non utilises d'autres noeuds. Chaque noeud comprend un traitement de noeuds (NH) qui, sous le controle d'un processeur de noeuds (NP), convertit et echange les informations entre les abonnes, les noeuds et les bus. Pour la transmission des informations entre les bus, on raccorde un traitement de noeuds (NH) en tant que passerelle en chacun des points d'intersection dudit reseau de matrices.

Patent and Priority Information (Country, Number, Date):

Patent: ...19890908



Fulltext Availability:  
Detailed Description  
Publication Year: 1989

Detailed Description

... which results in  
that nearly all communication errors can be detected and corrected as  
well.

DISTRIBUTED RESOURCE MANAGER. A simple concept for distributing the  
control of free slots.

SELFADJUSTMENT OF BANDWIDTH A bandwidth which has been set by the  
resource manager will remain until...

[File 347] JAPIO Dec 1976-2005/Dec(Updated 060404)  
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[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200642  
(c) 2006 The Thomson Corp. All rights reserved.

*\*File 350: Preview the enhanced DWPI through ONTAP DWPI (File 280). For more information, visit  
<http://www.dialog.com/dwpi/>.*

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Set	Items	Description
S1	483267	REFERENCE OR REFERENCES FROM 347, 350
S2	5081860	PRESET OR PREDETERMINED OR SET OR PRESCRIBED OR FIXED OR GIVEN OR ESTABLISHED OR PRECONFIGURED OR PREESTABLISHED OR PRESTABLISHED FROM 347, 350
S3	827094	PRESTATED OR DETERMINED OR PREDEFINED OR STATED OR DEFINED OR PRESTIPULATED OR PREORDAINED OR PREARRANGED OR PREDECIDED FROM 347, 350
S4	1720631	PRESELECTED OR SPECIFIC OR SPECIFIED OR PRESPECIFIED OR PROGRAMED OR PROGRAMMED FROM 347, 350
S5	5020	PRE()(CONFIGURED OR STIPULATED OR ORDAINED OR DECIDED OR SELECTED OR ARRANGED) FROM 347, 350
S6	26666	S2:S5(1W)S1 FROM 347, 350
S7	482323	REFERENCE OR REFERENCED FROM 347, 350
S8	767242	(S7 OR S2:S5)(1W)(VALUE? ? OR LIMIT? ? OR AMOUNT? ? OR QUANTITY? OR QUANTITIES OR LEVEL? ? OR PROFILE? ? OR POINT? ? OR CONDITION? ?) FROM 347, 350
S9	62450	(S7 OR S2:S5)(1W)(STATE OR STATES OR FACTOR OR FACTORS OR COUNT? ? OR LIMIT? ? OR INDICIA? ? OR INDICIE? ? OR INDICE? ? OR INDEX?? ?) FROM 347, 350
S10	205945	(S7 OR S2:S5)(1W)(PATTERN? ? OR PARAMET? OR BOUND? ? OR RANGE? ? OR CRITERIA? OR CRITERION? OR NORM? ? OR MODEL? ? OR RULE? ? OR FORMULA? ?) FROM 347, 350
S11	725930	TARGET? ? OR STANDARD? ? OR BASELINE? OR BASE()LINE? ? OR THRESHOLD? ? OR YARDSTICK? OR YARD()STICK? ? OR BENCHMARK? OR BENCH()MARK? ? FROM 347, 350
S12	185420	OPERATI????? ?(1W)(CONDITION? ? OR STATE? ? OR STATUS? OR SITUATION? OR POSITION? OR MODE OR MODES OR STAGE? ?) FROM 347, 350
S13	1777886	LOAD OR WORKLOAD OR VOLUME OR USAGE OR REQUESTS OR USERS OR ACTIVITY OR TRAFFIC OR TRANSACTIONS OR DEMAND FROM 347, 350
S14	22854	DB OR DBS FROM 347, 350
S15	124924	DATABASE? OR DATASET? ? OR DATABANK? OR DATASTORE? OR DATAFILE? OR DATASYSTEM? OR DATALIBRAR? OR DATAMART? FROM 347, 350
S16	168692	DATA()(BASE? ? OR SET? ? OR BANK? ? OR STORE? ? OR FILE? ? OR SYSTEM? ? OR LIBRAR??? ? OR MART? ?) FROM 347, 350
S17	1834	DBMS OR RDB? ? OR VLDB? ? OR LDB? ? OR ODBC? ? OR OODB? ? OR RDBM? ? OR OODM? ? OR ODBM? ? FROM 347, 350
S18	142098	FILE OR FILES FROM 347, 350
S19	68987	RESOURCE OR RESOURCES FROM 347, 350
S20	8984	S14:S19(3N)(ADD? ? OR ADDED OR ADDING OR SUPPLEMENT? OR ADDITIONAL OR EXTRA OR ANOTHER) FROM 347, 350
S21	16731	S14:S19(3N)(COPY? OR COPIES OR COPIED OR REPLICA? OR DUPLICAT? OR MIRROR? OR REPRODUC????? ? OR SHADOW? OR MIRROR? OR BACKUP?) FROM 347, 350
S22	839	S14:S19(3N)(BACK()UP? ? OR CLON????? ? OR RE()PRODUC????? ?) FROM 347, 350
S23	1123073	COMPARISON? OR COMPAR??? ? OR COMPARAT?R? ? OR MATCH????? ? OR MISMATCH? OR NONCOINCIDEN? OR INCONSISTEN? OR DISAGREE? OR DISCORD? FROM 347, 350
S24	2564	NONCORRESPOND? OR (NON OR UN)()(COINCIDEN? OR CONSISTEN? OR CORRESPONDEN?) FROM 347, 350
S25	2227	S S23:S24(5N)S12
S26	262	S S25(5N)(S6 OR S8:S11)
S27	1	S S26 AND S20:S22
S28	22173	S S23:S24(5N)S13
S29	2026	S S28(5N)(S6 OR S8:S11)
S30	3	S S29 AND S20:S22

S31	3	S S30 NOT S27
S32	3561	S (NUMBER OR QUANTITY)(1W)S14:S19 OR NUMBER(2W)S20:S22
S33	25	S QUANTITY(2W)S20:S22
S34	43974	S S12:S13(7N)(S6 OR S8:S11)
S35	19	S S32:S33 AND S34
S36	19	S S35 NOT (S27 OR S31)
S37	6	S S36 AND AC=US/PR AND AY=(1963:2003)/PR
S38	7	S S36 AND AC=US AND AY=1963:2003
S39	7	S S36 AND AC=US AND AY=(1963:2003)/PR
S40	16	S S36 AND PY=1963:2003
S41	17	S S37:S40

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27/9/1 (Item 1 from file: 350) Links

Derwent WPIX

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017207947 \*\*Image available\*\*

WPI Acc No: 2005-531564/200554

XRPX Acc No: N05-435160

Adjustment method of database replicas in server of communication system, involves adjusting multiple copies of database, based on comparison between value representing monitored operating condition and prestored threshold value

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: ALTAF F; RAVI K; REYNOLDS M J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050154697	A1	20050714	US 2004756874	A	20040114	200554

Priority Applications (No Type Date): US 2004756874 A 20040114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20050154697	A1		12	G06F-007/00	

Abstract (Basic): US 20050154697 A1

NOVELTY - The method involves monitoring operating conditions associated with a database, and accessing a prestored threshold value associated with the operating conditions. A value representing the monitored operating conditions is compared with the prestored threshold value, and multiple copies of the database is adjusted accordingly.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) article comprising machine readable storage medium containing instructions for adjusting multiple database replicas;

(2) apparatus for adjusting multiple database replicas; and

(3) system for adjusting multiple database replicas.

USE - For adjusting multiple database replicas of database in server, using desktop computer, laptop computer, mainframe computer, portable electronic device and internet appliance connected to network such as internet, local area network (LAN), wide area network (WAN) and intranet, in communication system used in company.

ADVANTAGE - Enables adjusting multiple database replicas that are accessible based on defined threshold value, effectively thereby reducing burden of managing databases reliably.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the adjustment of the database replicas.

pp; 12 DwgNo 2/4

Title Terms: ADJUST; METHOD; DATABASE; REPLICA; SERVE; COMMUNICATE; SYSTEM;  
ADJUST; MULTIPLE; COPY; DATABASE; BASED; COMPARE; VALUE; REPRESENT;  
MONITOR; OPERATE; CONDITION; THRESHOLD; VALUE

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-H01C3; T01-J05B4A; T01-N01D2; T01-S03

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31/9/1 (Item 1 from file: 347) [Links](#)

JAPIO

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07339221 **\*\*Image available\*\***

## **DEVICE AND METHOD FOR ACTIVATING RESERVE RESOURCE AUTOMATICALLY**

**Pub. No.:** 2002-207712 [JP 2002207712 A ]

**Published:** July 26, 2002 (20020726)

**Inventor:** ROMERO FRANCISCO J

THOMAS E TURICCHI JR

**Applicant:** HEWLETT PACKARD CO (HP)

**Application No.:** 2001-312183 [JP 2001312183]

**Filed:** October 10, 2001 (20011010)

**Priority:** 00 709705 [US 2000709705], US (United States of America), November 09, 2000 (20001109)

**International Class:** G06F-015/177; G06F-009/46; G06F-013/00

### **ABSTRACT**

**PROBLEM TO BE SOLVED:** To dynamically, i.e., automatically provide a resource capacity required to cope with variation of a user demand, and automatically activate a reserve **resource** when an **additional resource** capacity is required in order to satisfy the demand.

**SOLUTION:** This method for activating the reserve resource automatically contains a step 400 for monitoring load to some active resources, a step 410 for **comparing the load** with a **threshold** value assigned in a resource using plan, and a step 440 for activating the reserve resource automatically when a command is issued according to the **resource** using plan.

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31/9/2 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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017057553 **\*\*Image available\*\***

WPI Acc No: 2005-381878/200539

XPX Acc No: N05-309231

**Data processing system, has selection logic determining target volume within pool, matching with technical compatibility of source volumes, and pairing source volumes to selected target volume**

**Patent Assignee:** INT BUSINESS MACHINES CORP (IBMC )

**Inventor:** BLEA D R; BRUNDIDGE J L; CALDER E J; MCBRIDE G E; SCHLOMER T B;  
SHACKELFORD D M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050081006	A1	20050414	US 2003683179	A	20031010	200539

Priority Applications (No Type Date): US 2003683179 A 20031010

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20050081006	A1		19	G06F-012/00	

Abstract (Basic): US 20050081006 A1

NOVELTY - The system has a selection logic to **back-up** a source **database** at specified events, based on a copy command invoked by a user. The logic identifies pools of potential target volumes used for data back up. The **target volume** within a pool, **matching** with the technical compatibility of source volumes and a user defined metric is determined. The logic then pairs the source volumes to a selected target volume.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a data storage system configurator with an interface coupled to data storage devices

(B) a computer program product in a computer readable media for selecting a target device

(C) a method for using a computer to select a target resource that matches a host resource.

USE - Used for saving recent **copy** or version of **data sets** in a **backup** storage device e.g. magnetic or optical disk drive, tape drive and memory.

ADVANTAGE - The system eliminates the user-induced errors and enhances ease of use of data. The system provides increased efficiency in pairing targets to sources and preserves subgroups in a replica.

DESCRIPTION OF DRAWING(S) - The drawing shows a high leveled block diagram depicting self-configuration of source to target mapping.

pp; 19 DwgNo 2/5

Title Terms: DATA; PROCESS; SYSTEM; SELECT; LOGIC; DETERMINE; TARGET; VOLUME; POOL; MATCH; TECHNICAL; COMPATIBLE; SOURCE; VOLUME; PAIR; SOURCE; VOLUME; SELECT; TARGET; VOLUME

Derwent Class: T01; T03

International Patent Class (Main): G06F-012/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-H01B4; T01-H01B6; T01-H01C3; T01-S03; T03-M07

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41/9/1 (Item 1 from file: 347) [Links](#)

JAPIO

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06658684 \*\*Image available\*\*

## **BOUNDARY DEVICE AND ITS CONNECTION SETTING METHOD**

**Pub. No.:** 2000-244507 [JP 2000244507 A ]

**Published:** September 08, 2000 (20000908)

**Inventor:** SOMIYA TOSHIO

TAKASHIMA KIYONARI

NAKAMICHI KOJI

WATANABE TADAAKI

EZAKI YUTAKA

**Applicant:** FUJITSU LTD

**Application No.:** 11-039731 [JP 9939731]

**Filed:** February 18, 1999 (19990218)

**International Class:** H04L-012/28; H04L-012/66; H04Q-003/00

## **ABSTRACT**

**PROBLEM TO BE SOLVED:** To set an optimum connection for data distribution to an asynchronous transfer mode(ATM) network while considering the degree of effective band utilization not only between a transmission side boundary device and an ATM exchange but also over the entire network.

**SOLUTION:** A transmission side boundary device EN0 provided on the boundary of an Internet protocol(IP) network housing a transmission terminal S and an ATM network 33 divides resource demands which are received from reception terminals R1-Rn through reception side boundary devices EN1-ENn, into plural groups for each demand band, sets a point-multipoint connection between the present device and the reception side boundary devices EN1-ENn for each group and distributes data from the transmission terminal through that connection to the reception terminals. When the **number of resource** demands is changed by newly generating or extinguishing the resource demand, the effective band assignment rate of a group, where the **number of resource** demands is changed, is calculated. When that effective band assignment rate is not more than a **set value**, the **demand** pertaining to that group is divided into two groups and connections are set to the respective groups.

**COPYRIGHT:** (C)2000,JPO

41/9/2 (Item 2 from file: 347) [Links](#)

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05888422 \*\*Image available\*\*

## **MONITORING DATA COLLECTING DEVICE**



**Pub. No.:** 10-171522 [JP 10171522 A ]

**Published:** June 26, 1998 (19980626)

**Inventor:** TANADA SEIICHI

**Applicant:** TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)

**Application No.:** 08-332197 [JP 96332197]

**Filed:** December 12, 1996 (19961212)

**International Class:** [ 6 ] G05B-023/02; G05B-023/02; G01D-009/00

**JAPIO Class:** 22.3 (MACHINERY -- Control & Regulation); 46.1 (INSTRUMENTATION -- Measurement)

#### **ABSTRACT**

**PROBLEM TO BE SOLVED:** To make it possible to store the newest and always correct data of fixed volume even when the time of a timer circuit is corrected or changed in error.

**SOLUTION:** Data files 17 in which data of prescribed **volume** successively collected from a **target** 12 to be monitored and collection time obtained from a timer circuit 15 are written are successively prepared and successively stored in a data storage part 18, and when the **number** of **data files** 17 stored in the storage part 18 exceeds a previously determined regulated number necessary for data storage, future time exists in the collection time of respective stored data files 17 or not is judged. When future time does not exist, a data file corresponding to the oldest collection time is deleted. When future time exists, a data file corresponding to the farthest future time is deleted.

41/9/3 (Item 3 from file: 347) [Links](#)

JAPIO

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04225142 **\*\*Image available\*\***

#### **RESOURCES MANAGING DEVICE**

**Pub. No.:** 05-216842 [JP 5216842 A ]

**Published:** August 27, 1993 (19930827)

**Inventor:** SATO FUMIAKI

IMAI ISAO

**Applicant:** MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)

**Application No.:** 04-020154 [JP 9220154]

**Filed:** February 05, 1992 (19920205)

**International Class:** [ 5 ] G06F-015/16

**JAPIO Class:** 45.4 (INFORMATION PROCESSING -- Computer Applications)

**Journal:** Section: P, Section No. 1655, Vol. 17, No. 662, Pg. 56, December 07, 1993 (19931207)

#### **ABSTRACT**

**PURPOSE:** To equally distribute a load without a mechanism to be a bottleneck even with respect to an increase of a resources access request by providing an access request receiving/transferring means for selecting reception and transfer of the resources access request based on the **number** of **resources access requests** and a **threshold**.

**CONSTITUTION:** The resources managing device 101 accumulates a resources access request in a cue, sets in

advance a certain threshold to the length of the cue, and in the case the cue length exceeds the threshold, the subsequent access request is transferred to other resources managing device set in advance and by executing a substitute processing, a load is distributed. In such a state, with respect to an inquiry about the possibility of reception from an access request receiving device 2 a cue managing device 5 compares a threshold set from a threshold setting device 4 with the length of the present cue and answers the inquiry about the possibility of reception. Also, a transfer destination setting device 10 determines a substitute resources managing device based on the number of times of the resources access request from each resources managing device recorded in an access request analyzing device 3.

41/9/6 (Item 1 from file: 350) Links

Derwent WPIX

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016216436      \*\*Image available\*\*

WPI Acc No: 2004-374324/200435

XRPX Acc No: N04-297794

Dynamic associative resource allocating system for computer system, has resource management control with counter to record usage history for each partition of associative resources

Patent Assignee: IBM CORP (IBMC ); TREMAINE R B (TREM-I); INT BUSINESS MACHINES CORP (IBMC )

Inventor: TREMAINE R B

Number of Countries: 003    Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20040078532	A1	20040422	US 2002271577	A	20021016	200435	B
JP 2004164607	A	20040610	JP 2003325295	A	20030917	200438	
CN 1490728	A	20040421	CN 2003124973	A	20030923	200446	
US 6851030	B2	20050201	US 2002271577	A	20021016	200511	

Priority Applications (No Type Date): US 2002271577 A 20021016

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040078532	A1		11	G06F-012/00	
JP 2004164607	A		17	G06F-012/08	
CN 1490728	A			G06F-012/08	
US 6851030	B2			G06F-012/02	

Abstract (Basic): US 20040078532 A1

NOVELTY - A resource management control has a counter to record a usage history for each partition of associative resources, while a replacement controller reallocates the distribution of resources within each partition. The threshold for each partition is stored in a corresponding register. A minimum number of resources are allocated per partition that has a usage history above the threshold.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) a method for allocating associative resources; and
- (b) a program storage device

USE - For computer system.

ADVANTAGE - Dynamically reallocates resources from underutilized partitions to highly-utilized partitions, without retrying requests for waiting for periodic allocations.

DESCRIPTION OF DRAWING(S) - The figure illustrates the processing system having an apparatus managing a virtual channel memory array.

Processing system (300)

Memory controller (320)

pp; 11 DwgNo 3/4

Title Terms: DYNAMIC; ASSOCIATE; RESOURCE; ALLOCATE; SYSTEM; COMPUTER;

SYSTEM; RESOURCE; MANAGEMENT; CONTROL; COUNTER; RECORD; HISTORY;

PARTITION; ASSOCIATE; RESOURCE

Derwent Class: T01

International Patent Class (Main): G06F-012/00; G06F-012/02; G06F-012/08

International Patent Class (Additional): G06F-012/12

File Segment: EPI

Manual Codes (EPI/S-X): T01-F02C2; T01-F05E; T01-S03

41/9/8 (Item 3 from file: 350) Links

Derwent WPIX

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015004644      \*\*Image available\*\*

WPI Acc No: 2003-065161/200306

XRPX Acc No: N03-050921

Resource management table number optimization method for online transaction management system, involves providing indication for enlarging upper limit of table, when number of entries to be made in it, exceeds preset value

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002342269	A	20021129	JP 2001142549	A	20010514	200306 B

Priority Applications (No Type Date): JP 2001142549 A 20010514

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002342269	A		9	G06F-015/00	

Abstract (Basic): JP 2002342269 A

NOVELTY - Multiple entries are made on a resource management table (108) for managing resource used for on-line transaction process. The entry usage situation is monitored at every preset interval. An indication for enlarging the upper limit of the table, is made when the entries exceeds preset value, during usage period, after which the table is extended for entries.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the

following:

- (1) Resource management table number optimizing system; and
- (2) Resource management table number optimization program.

USE - For optimizing **number of resource** management tables in on-line transaction management system.

ADVANTAGE - Enables optimizing **number of resource** management tables within short period.

DESCRIPTION OF DRAWING(S) - The figure shows an entire structure of on-line transaction processing system. (Drawing includes non-English language text).

Resource management table (108)

pp; 9 DwgNo 1/5

Title Terms: RESOURCE; MANAGEMENT; TABLE; NUMBER; OPTIMUM; METHOD; TRANSACTION; MANAGEMENT; SYSTEM; INDICATE; ENLARGE; UPPER; LIMIT; TABLE; NUMBER; ENTER; MADE; PRESET; VALUE

Derwent Class: T01

International Patent Class (Main): G06F-015/00

International Patent Class (Additional): G06F-009/46; G06F-012/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-F02; T01-H; T01-J

41/9/9 (Item 4 from file: 350) Links

Derwent WPIX

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013916002     \*\*Image available\*\*

WPI Acc No: 2001-400215/200143

XRPX Acc No: N01-295083

Call handler for telephone call handling center, provides relationship between incoming call traffic load and agent operator by dictating agent resource allocation and providing control output for resource allocator

Patent Assignee: CALLSCAN LTD (CALL-N)

Inventor: HUFFADINE R; SCRAGG A

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2356103	A	20010509	GB 9925987	A	19991103	200143

Priority Applications (No Type Date): GB 9925987 A 19991103

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2356103	A		18	H04M-003/51	

Abstract (Basic): GB 2356103 A

NOVELTY - A performance modeler (22) provides relationship between incoming call traffic load (12) and agent operator resources (16) which handles the load to meet the target criteria (26)

reflected in queued call wait time (15). The relationship is provided by dictating agent resource allocation and providing guidance control output for resource allocator (24).

USE - For telephone call handling centers.

ADVANTAGE - Determines appropriateness or effectiveness of agent resource allocation levels in meeting target service level performance criteria for varying call traffic load. Agent resources for traffic level is optimized using call handler. Individual call waiting time is minimized. Number of resource agents required to meet target criteria is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows the deployment and grouping of agents, in addressing and queuing incoming call traffic.

Incoming call traffic load (12)

Queued call wait time (15)

Agent operator resources (16)

Performance modeler (22)

Resource allocator (24)

Target criteria (26)

pp; 18 DwgNo 1/2

Title Terms: CALL; HANDLE; TELEPHONE; CALL; HANDLE; RELATED; INCOMING; CALL  
; TRAFFIC; LOAD; AGENT; OPERATE; DICTATE; AGENT; RESOURCE; ALLOCATE;  
CONTROL; OUTPUT; RESOURCE; ALLOCATE

Derwent Class: W01

International Patent Class (Main): H04M-003/51

International Patent Class (Additional): H04M-003/50

File Segment: EPI

Manual Codes (EPI/S-X): W01-C02A1A; W01-C02G3B

41/9/11 (Item 6 from file: 350) Links

Derwent WPIX

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013435342      \*\*Image available\*\*

WPI Acc No: 2000-607285/200058

XRPX Acc No: N00-449863

Connecting setting method of asynchronous transfer mode

network, involves computing band allocation for receiving terminal based  
on change in number of resources demand

Patent Assignee: FUJITSU LTD (FUJIT )

Inventor: EZAKI Y; NAKAMICHI K; SOUMIYA T; TAKASHIMA K; WATANABE N

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000244507	A	20000908	JP 9939731	A	19990218	200058	B
US 6760774	B1	20040706	US 2000489822	A	20000124	200444	
JP 3766223	B2	20060412	JP 9939731	A	19990218	200626	

Priority Applications (No Type Date): JP 9939731 A 19990218

Priority Applications (No Type Date): JP 9939731 A 19990218

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000244507	A		60	H04L-012/28	
US 6760774	B1			G06F-015/16	
JP 3766223	B2		75	H04L-012/28	Previous Publ. patent JP 2000244507

Abstract (Basic): JP 2000244507 A

NOVELTY - The **number of resources** demand from receiving terminals (R1-Rn) to transmitting terminal (S) is changed due to the generation of new demand. Based on the change in **number of resources**, band allocation for receiving terminal is computed. When computed value is below **preset value**, **demand** belonging to specific group is separated for two groups and connection is set.

DETAILED DESCRIPTION - The IP network accommodates a transmitting terminal (S), that is connected to boundary apparatus (EN0) of ATM network (33). When resources demand is received from receiving terminals (R1-Rn), data is delivered to receiving terminal from transmitting terminal. An INDEPENDENT CLAIM is also included for boundary apparatus.

USE - For controlling connection between communication network.

ADVANTAGE - Since band allocation is performed based on the change in **number of resources** demand, effective band usage of entire ATM network is achieved and optimum connection for data delivery is set.

DESCRIPTION OF DRAWING(S) - The figure shows the connection diagram.

ATM network (33)  
Boundary apparatus (EN0)  
Receiving terminals (R1-Rn)  
Transmitting terminal (S)  
pp; 60 DwgNo 1/74

Title Terms: CONNECT; SET; METHOD; ASYNCHRONOUS; TRANSFER; MODE; NETWORK; COMPUTATION; BAND; ALLOCATE; RECEIVE; TERMINAL; BASED; CHANGE; NUMBER; RESOURCE; DEMAND

Derwent Class: W01

International Patent Class (Main): G06F-015/16; H04L-012/28

International Patent Class (Additional): G06F-015/173; H04L-012/66;  
H04Q-003/00

File Segment: EPI

Manual Codes (EPI/S-X): W01-A03B1

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*\*File 583: This file is no longer updating as of 12-13-2002.*

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Set	Items	Description
S1	1181245	REFERENCE OR REFERENCES FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S2	6900082	PRESET OR PREDETERMINED OR SET OR PRESCRIBED OR FIXED OR GIVEN OR ESTABLISHED OR PRECONFIGURED OR PREESTABLISHED OR PRESTABLISHED FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S3	3860039	PRESTATED OR DETERMINED OR PREDEFINED OR STATED OR DEFINED OR PRESTIPULATED OR PREORDAINED OR PREARRANGED OR PREDECIDED FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S4	3109727	PRESELECTED OR SPECIFIC OR SPECIFIED OR PRESPECIFIED OR PROGRAMED OR PROGRAMMED FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S5	3438	PRE()(CONFIGURED OR STIPULATED OR ORDAINED OR DECIDED OR SELECTED OR ARRANGED) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S6	16310	S2:S5(1W)S1 FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S7	872655	REFERENCE OR REFERENCED FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S8	359478	(S7 OR S2:S5)(1W)(VALUE? ? OR LIMIT? ? OR AMOUNT? ? OR QUANTITY? OR QUANTITIES OR LEVEL? ? OR PROFILE? ? OR POINT? ? OR CONDITION? ?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S9	86915	(S7 OR S2:S5)(1W)(STATE OR STATES OR FACTOR OR FACTORS OR COUNT? ? OR LIMIT? ? OR INDICIA? ? OR INDICIE? ? OR INDICE? ? OR INDEX?? ?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S10	242594	(S7 OR S2:S5)(1W)(PATTERN? ? OR PARAMET? OR BOUND? ? OR RANGE? ? OR CRITERIA? OR CRITERION? OR NORM? ? OR MODEL? ? OR RULE? ? OR FORMULA? ?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S11	4524870	TARGET? ? OR STANDARD? ? OR BASELINE? OR BASE()LINE? ? OR THRESHOLD? ? OR YARDSTICK? OR YARD()STICK? ? OR BENCHMARK? OR BENCH()MARK? ? FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S12	221287	OPERATI?????(1W)(CONDITION? ? OR STATE? ? OR STATUS? OR SITUATION? OR POSITION? OR MODE OR MODES OR STAGE? ?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S13	7786052	LOAD OR WORKLOAD OR VOLUME OR USAGE OR REQUESTS OR USERS OR ACTIVITY OR TRAFFIC OR TRANSACTIONS OR DEMAND FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S14	275610	DB OR DBS FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S15	780165	DATABASE? OR DATASET? ? OR DATABANK? OR DATASTORE? OR DATAFILE? OR DATASYSTEM? OR DATALIBRAR? OR DATAMART? FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S16	484571	DATA()(BASE? ? OR SET? ? OR BANK? ? OR STORE? ? OR FILE? ? OR SYSTEM? ? OR LIBRAR??? ? OR MART? ?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583
S17	29938	DBMS OR RDB? ? OR VLDB? ? OR LDB? ? OR ODBC? ? OR OODB? ? OR RDBM? ? OR OODM? ? OR ODBM? ? FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266,



434, 483, 583  
 S18 329741 FILE OR FILES FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S19 1331051 RESOURCE OR RESOURCES FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S20 22417 S14:S19(3N)(ADD? ? OR ADDED OR ADDING OR SUPPLEMENT? OR ADDITIONAL OR EXTRA OR ANOTHER) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S21 18485 S14:S19(3N)(COPY? OR COPIES OR COPIED OR REPLICA? OR DUPLICAT? OR MIRROR? OR REPRODUC???? ? OR SHADOW? OR MIRROR? OR BACKUP?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S22 1723 S14:S19(3N)(BACK()UP? ? OR CLON???? ? OR RE()PRODUC???? ?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S23 8281671 COMPARISON? OR COMPAR??? ? OR COMPARAT?R? ? OR MATCH???? ? OR MISMATCH? OR NONCOINCIDEN? OR INCONSISTEN? OR DISAGREE? OR DISCORD? FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S24 1640 NONCORRESPOND? OR (NON OR UN)()(COINCIDEN? OR CONSISTEN? OR CORRESPONDEN?) FROM 256, 2, 6, 8, 56, 57, 60, 34, 35, 65, 94, 95, 99, 111, 144, 266, 434, 483, 583  
 S25 3917 S S23:S24(5N)S12  
 S26 158 S S25(5N)(S6 OR S8:S11)  
 S27 0 S S26 AND S20:S22  
 S28 132864 S S23:S24(5N)S13  
 S29 2604 S S28(5N)(S6 OR S11)  
 S30 4 S S29 AND S20:S22  
 S31 4 RD (unique items)  
 S32 1 S S31/2004:2006  
 S33 3 S S31 NOT S32  
 S34 3702 S NUMBER(1w)S14:S19 OR NUMBER(2w)S20:S22  
 S35 28 S S34(5N)(ADJUST? OR READJUST? OR MODULAT? OR ADAPT? OR RECONCIL? OR ALTERR? OR ALTER??? ? OR ALTERATION? OR MODIFIC? OR MODIFIE? ?)  
 S36 103 S S34(5N)(MODIFY? OR VARIE? ? OR VARY??? OR DYNAMIC? OR ACCOMMODAT? OR CHANG??? ? OR RECONFIGUR?)  
 S37 0 S S35:S36 AND S12  
 S38 46 S S35:S36 AND S13  
 S39 13 S S38 AND (S6 OR S8:S11)  
 S40 7 S S39/2004:2006  
 S41 6 S S39 NOT (S40 OR S30)  
 S42 6 RD (unique items)  
 S43 306 S QUANTITY(1w)S14:S19 OR QUANTITY(2w)S20:S22  
 S44 3 S S43(5N)(ADJUST? OR READJUST? OR MODULAT? OR ADAPT? OR RECONCIL? OR ALTERR? OR ALTER??? ? OR ALTERATION? OR MODIFIC? OR MODIFIE? ?)  
 S45 5 S S43(5N)(MODIFY? OR VARIE? ? OR VARY??? OR DYNAMIC? OR ACCOMMODAT? OR CHANG??? ? OR RECONFIGUR?)  
 S46 0 S S44:S45 AND S12:S13

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42/7/5 (Item 1 from file: 8) [Links](#)

Ei Compendex(R)

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06765298 E.I. No: EIP04128070769

**Title: Pipeline Muffling and A Priori Current Ramping: Architectural Techniques to Reduce High-Frequency Inductive Noise**

**Author:** Powell, Michael D.; Vijaykumar, T.N.

**Corporate Source:** Sch. of Elec./Computer Engineering Purdue University, West Lafayette, IN 47907, United States

**Conference Title:** Proceedings of the 2003 International Symposium on Low Power Electronics and Design, (ISLPED'03)

**Conference Location:** Seoul, South Korea **Conference Date:** 20030825-20030827

**Sponsor:** Association for Computing Machinery; Special Interest Group on Design Automation; IEEE Circuits and Systems Society; IEEE Solid-State Circuits Society; IEEE Electron Devices Society

**E.I. Conference No.:** 62417

**Source:** Proceedings of the International Symposium on Low Power Design 2003. (IEEE cat n 03TH8713)

**Publication Year:** 2003

**Language:** English

**Document Type:** CA; (Conference Article) **Treatment:** T; (Theoretical); X; (Experimental)

**Journal Announcement:** 0403W4

**Abstract:** While circuit and package designers have addressed microprocessor inductive noise issues in the past, multi-gigahertz clock frequencies and billion-transistor-level integration are exacerbating the problem, necessitating microarchitectural solutions. The large net on-die decoupling capacitance used to address this noise throughout the chip consumes substantial area and can cause a large leakage current. This paper proposes microarchitectural techniques to reduce high-frequency current variability, reducing the need for decoupling capacitors. We observe that we can control inductive noise by reducing current variability either in space (i.e., variability in usage of circuit blocks) or in time (i.e., variability within a circuit block across clock cycles). We propose pipeline muffling, a novel technique to reduce **changes** in the **number** of **resources** being utilized by controlling instruction issue, trading off some energy and performance to control di/dt in space. We also extend a previous technique, which incurs performance and energy degradation, and propose a priori current ramping to allow the current of a resource to ramp up ahead of **usage**, with virtually no performance loss, and ramp down immediately after **usage**, with little energy loss. Our techniques guarantee a worst-case bound on the di/dt, which is required to reduce the **demand** for decoupling capacitors, saving area and reducing leakage. 16 Refs.

42/7/6 (Item 2 from file: 8) [Links](#)

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02777399 E.I. Monthly No: EI8908071247

**Title: Robust transaction routing in distributed database systems.**

**Author:** Lee, Yann-Hang; Yu, Philip S.; Leff, Avraham

**Corporate Source:** Univ of Florida, Comput Sci Dep, Gainesville, FL, USA

**Conference Title:** Proceedings International Symposium on Databases in Parallel and Distributed Systems

**Conference Location:** Austin, TX, USA **Conference Date:** 19881205

**Sponsor:** IEEE Computer Soc, Technical Committee on Data Engineering, Los Alamitos, CA, USA; ACM, Special Interest Group on Computer Architecture, New York, NY, USA; IEEE, Computer Soc, Technical Committee on Distributed Processing, Los Alamitos, CA, USA; INRIA, Le Chesnay, Fr

**E.I. Conference No.:** 12077

**Source:** Proc Int Symp on Databases in Parallel Distrib Syst. Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (cat n 88CH2665-8), Piscataway, NJ, USA. p 210-219

**Publication Year:** 1988

**ISBN:** 0-8186-0893-5

**Language:** English

**Document Type:** PA; (Conference Paper) **Treatment:** T; (Theoretical)

**Journal Announcement:** 8908

**Abstract:** The authors examine the issue of robust transaction routing in distributed database systems. A class of dynamic routing strategies which are estimated response times to make routing decisions is studied in details. Since response time estimation and decision making depend on the assumed transaction model and parameters, it is important to examine the robustness or sensitivity to the inaccuracy in the assumptions and parameter values. Through simulations, the authors find that the dynamic routing strategy based strictly on response time is too aggressive in sharing loads and makes too many nonpreferred system routings. It is robust with respect to **change** in the **number** of **database** calls per transaction, but is relatively sensitive to the distribution of database calls. Two refinements are proposed which improve system performance as well as robustness of routing decisions. 18 Refs.

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